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AREA AND POINT SOURCE INVENTORIES IN THE STATES OF ALASKA, IDAHO AND WASHINGTON

GCA Corporation

PREPARED FOR

ENVIRONMENTAL PROTECTION AGENCY

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Final Report

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Prepared For
ENVIRONMENTAL PROTECTION AGENCY
AIR QUALITY MONITORING SECTION
SURVEILLANCE BRANCH
Washington, D.C. 20460

June 1974

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FINAL REPORT

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PROJECT OFFICER

AREA AND POINT SOURCE INVENTORIES

IN THE STATES OF

ALASKA, IDAHO AND WASHINGTON

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CONTENTS

		Page
List of Figures		iii
List of Tables		iv
Acknowledgments		v
Sections		
I	INTRODUCTION AND SUMMARY	1
II	POINT SOURCES	2
III	AREA SOURCES	8
IV	NEDS INVENTORY SUMMARY FOR ABATEMENT COUNTIES IN WASHINGTON	12
V	REFERENCES	23
VI	APPENDIX A	24

FIGURES

No.		Page
A-1	Point and Area Source Particulate Emissions for Clark Co., WN.	87
A-2	Point and Area Source CO_2 Emissions for Clark Co., WN.	88
A-3	Point and Area Source Particulate Emissions for Cowlitz Co., WN.	89
A-4	Point and Area Source SO_2 Emissions for Cowlitz Co., WN.	90
A-5	Point and Area Source Particulate Emissions for King Co., WN.	91
A-6	Point and Area Source CO Emissions for King Co., WN.	92
A-7	Point and Area Source Particulate Emissions for Pierce Co., WN.	93
A-8	Point and Area Source SO_2 Emissions for Pierce Co., WN.	94
A-9	Point and Area Source Particulate Emissions for Snohomish Co., WN.	95
A-10	Point and Area Source Particulate Emissions for Spokane Co., WN.	96
A-11	Point and Area Source CO Emissions for Spokane Co., WN.	97

TABLES

No.		Page
1	Total Plants and Points by Emission Size for the State of Idaho, Washington and Alaska	3
2	Percent of Excess Air (Volume/Unit Fuel)	5
3	Orchard Heating in Washington	11
4	Clark Co. Point and Area Source Emissions Inventory	13
5	Cowlitz Co. Point and Area Source Emissions Inventory	14
6	King Co. Point and Area Source Emissions Inventory	15
7	Pierce Co. Point and Area Source Emissions Inventory	16
8	Snohomish Co. Point and Area Source Emissions Inventory	17
9	Spokane Co. Point and Area Source Emissions Inventory	18
10	Area Source Emission Factors (lb/U)	20
A-1	Washington NEDS Update - 3/22/74	25
A-2	Idaho NEDS Update - 3/22/74	60
A-3	Alaska NEDS Update - 1/22/74	78

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SECTION I

INTRODUCTION AND SUMMARY

This report describes the work GCA performed in updating and upgrading the National Emission Data System (NEDS) for the states of Alaska, Idaho and Washington.

The point source information was obtained from the files of the state and local air pollution offices. The area source information previously in NEDS was reviewed and corrected to reflect the addition of new point sources in the system. Additional entries were coded with new information obtained from various literature sources, state and federal agencies.

Near the end of the program GCA summarized the emissions entered in NEDS for the primary abatement areas in the state of Washington. Emissions were also projected for the years 1975 and 1977 based upon the information found in the compliance schedules, and the information provided by state and federal agencies.

SECTION II

POINT SOURCES

The point sources emissions inventory (NEDS) for Alaska, Idaho and Washington was upgraded, updated and expanded to comprise most establishments emitting greater than 25 tons/year and/or found in the Compliance Data System (CDS). Table 1 presents a quantitative summary of the pre-contract and after-contract status of the National Emission Data Bank (NEDB). With the assistance of state personnel, the GCA staff was able to double and at times triple, the total number of plants and/or point sources. Approximately 450 establishments, whose emissions were unknown or less than 25 tons/per of any of the five major pollutants, are also in the data bank. They were either originally in the data bank or were found in CDS. Emission estimates were unknown for approximately 15 percent of all plants. They were not estimated because of insufficient operating data. A guess was not attempted as directed by the project officer. It is believed that these plant sources are not large emitters and their contribution to the total is negligible.

The procedure and assumptions for performing the work in each of the states is described below.

WASHINGTON

About one-half of GCA's effort was spent in the state of Washington because it is the most industrialized of the three states. With the assistance of Mr. Dale Bickenback and Mr. Phil Nelson of the Department

Table 1. TOTAL PLANTS AND POINTS BY EMISSION SIZE FOR THE STATE OF IDAHO, WASHINGTON AND ALASKA

State before/after GCA contract	Total plants and points by emission size (tons/year)									
	> 100		25-100		< 25		Unknown[a]		Total	
	No. plants	No. points	No. plants	No. points	No. plants	No. points	No. plants	No. points	No. plants	No. points
Idaho										
(before)	79	-	37	-	74	-	0	-	190	350
(after)	92	253	41	48	93	96	111	114	337	511
Washington										
(before)	170	-	38	-	22	-	5	-	235	915
(after)	243	991	180	356	150	189	42	43	615	1579
Alaska										
(before)	-	-	-	-	-	-	-	-	52	101
(after)	79	150	35	54	42	45	12	12	168	261

[a]Plant emission size unknown due to insufficient operating data; no new questionnaire mailing attempted.

of Ecology, Washington, GCA reviewed and expanded the point sources in the data bank. The NEDS plant identification numbers were developed collectively and are in agreement. The original entries were for the calendar year 1970 or 1971 and were made using the old edition of the "Guide for Compiling a Comprehensive Emission Inventory."[1] Our procedure consisted of not only updating to the calendar year 1972 or 1973 where possible, but upgrading to reflect the structure of the plant (emission points sequenced from raw materials to final products), the company reference codes or names of processes, the new SCC's and revised 1972 SIC codes, and the new guidelines for coding.[2]

A listing of the establishments to be found in the NEDB is given in Table A-1 of the Appendix. The table also gives the number of point sources within a plant, the SIC, the additional information required to fully complete the entries, and the plant emission size code for the pollutant being emitted the most. The emission size is decoded as follows:

(1)- Greater or equal to 100 tons/year
(2)- Between 25 and 100 tons/year
(3)- Less or equal to 25 tons/year
(-)- Emission size unknown

It should be noted that most companies in the Northwest and the Tri-counties areas were coded by the state personnel and reviewed by GCA.

In addition to the information found in the company files, GCA made some calculations and estimated some of the entries of the NEDS form. The specific procedure and assumptions made other than that found in the "Guide for Compiling a Comprehensive Emission Inventory"[2] are outlined below.

- Stack flow rates were frequently not found in the state files. They were estimated using "Exhaust Gases from Combustion and Industrial Sources."[3] Whenever this method was not possible, Table 2 was used for combustion sources.

Table 2. PERCENT OF EXCESS AIR (VOLUME/UNIT FUEL)

		Natural Gas ($ft.^3$)	No. 2 Oil (gal.)	Coal (lb.)	Wood (lb.)
External Combustion	Process Heat	200 (32 $ft.^3$)	300 (5520 $ft.^3$)	X	X
	Boiler	30 (14.4 $ft.^3$)	30 (1848 $ft.^3$)	60 (178 $ft.^3$)	30 (120 $ft.^3$)
Internal Engine		-30 (8.231 $ft.^3$)	-30 (1032 $ft.^3$)	X	X
Tepee burner		X	X	X	300 (350 $ft.^3$)
Wood incinerator		X	X	X	0 (95 $ft.^3$)

o Example:

Operating rate = 240 gal/hour = 4 gal/min.

Each gal of oil at 30 percent excess air produces 1848 ft^3 of exhaust or flue gas.

Gas Flow Rate = 4 gal/min x $\left(\frac{1848\ ft^3}{gal}\right)$ = 7392 ft^3/min.

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- Emissions were sometimes estimated and coded as a guess whenever operating data was not available. A comparison with a similar type of source was made.
- GCA always calculated the allowables in tons/year. Two assumptions were taken to apply the regulations to the particular point source. One, hourly allowable emission rates were multiplied by the average operating hours to obtain the annual allowables. Two, the visible regulations were not taken into consideration because they can not be translated into actual numbers. The last assumption may imply that the company is in compliance with the grain loading or emission rate standard but not in compliance with the visual standard.
- Information was coded confidential for the companies under the jurisdiction of the Puget Sound and Northwest Air Pollution Control Agencies. This was requested by the directors.

IDAHO

The 190 plants already present in NEDS before GCA's contracts were reviewed and updated to reflect the 1972-1973 information received in the questionnaires. An additional 147 plants were determined by GCA and Mr. Dwayne McKenzie of the state agency to be point sources. While work was being performed the inspectors verified the existence of certain plants and some dubious information in the questionnaires. This information was then coded onto NEDS forms. A listing of the establishments along with their emission size code and SIC are found in Table A-2 of the Appendix. Some plants were deleted and readded in the correct county. Some point sources were deleted and readded to reflect a more logical sequential order.

The procedure for coding and the assumptions taken are essentially the same as for the State of Washington.

ALASKA

The original Alaska point sources were upgraded and updated for the calendar year 1972 or 1973 in a previous GCA contract, No. 68-02-1006,

Task 4. The procedure and assumptions taken by GCA are described in the final report of that contract.

The effort made in this present contract consisted in reviewing the data before and after keypunching and running the edit program. The following changes were made:

1. Point sources less than 1 ton/year were deleted from oil drilling platform plants.
2. All point sources were coded not confidential as per letter from Gary O'Neil of EPA.
3. New source test information was coded for Municipal Utility System, U. of Alaska, KTN Pulp Co., Alaska Woodproducts, Wrangell Lumber and Ft. Wainwright.
4. All forms were verified for illegal entries.
5. Most of the updated point source information requested from Mr. Stan Hungerford was provided to Mr. Wang by telephone.
6. Errors found by the edit program were corrected.

The final listing of companies sent to NEDB, Raleigh-Durham is found in Table A-3 of the Appendix. This listing contains the number of point sources for a given plant, the SIC and any additional information to complete all of the data entries in NEDS.

SECTION III

AREA SOURCES

The area source information found in NEDS was reviewed and changed to reflect the most recent available information with regard to population, fuel use, transportation and land management. No changes were made for the State of Alaska, because little or no information could be gathered for the entries left blank by the last review. The assumptions and methods used in updating the area source inventory are discussed for Washington and Idaho separately.

WASHINGTON

Not all area sources for the State of Washington were updated. The list of area sources below were frequently not changed for all counties except the primary abatement counties of King, Pierce, Snohomish, Clark, Cowlitz and Spokane:

Residential Fuel
Commercial and Institutional Fuel
On Site Incineration
Open Burning
Gasoline Fuel
Diesel Fuel
Vessels
Evaporation

The above area sources were not updated to 1972 because no information was available from some of the local state agencies. For the primary abatement counties the information found at the controlling agency was coded on to NEDS forms.

The remaining area sources were updated or entered for the first time for almost all counties.

1. Industrial Fuel - The update and addition of point sources, at one time considered area sources, caused significant changes in the usage of industrial fuel by the area sources. Usage was estimated by taking the difference between the 1972 applicable Bureau of Mines data (per APTD 1135)[2] and industrial point source fuel consumption. The difference was then apportioned to counties by using the number of manufacturing employees per county from the 1970 U. S. census.

2. Aircraft - Civic LTO cycles were obtained from the "Washington State Airport System Plan."[4] Both military and commercial 1970 LTO cycles were already in the data bank. The system plan stated only the total number of operations of public and privately owned airports. Therefore, the activities at airports which served commercial and/or military aircraft were subtracted from the county total to arrive at the civic activities.

3. Dirt Air Strips - The 1970 LTO cycles were obtained from the "Washington State Airport System Plan,"[4] which included the most active dirt air strips.

4. Measured Vehicle Miles - A breakdown of the 1972 annual vehicle miles for each county was obtained from Mr. Ensley of the Highway Planning Division of the State Department of Transportation. The urban VMT's of county roads and city streets were assumed to be urban for the NEDS field. The rural VMT's of county and city streets were assumed to be rural, and both the urban and rural VMT's of state highways were assumed to represent limited access road travel.

5. Dirt Roads Traveled - The total miles of dirt roads for the previously mentioned primary abatement counties were obtained from the State Department of Transportation. To obtain the VMT's it was assumed that 5,000 vehicles per year travel over the dirt roads.

6. Construction Land Area - A figure of 100,000 acres active 1 month was assumed for each of the primary abatement counties.

7. Forest Fires and Slash Burning - The 1972 information was obtained from the U. S. Forest Service, the Department of Natural Resources and the local state air pollution control agency. Usually the information was reported by forest name. A map was used to apportion the total to counties.

8. Agricultural Burning - Agricultural burning is practiced in eastern Washington, and the Dept. of Ecology collects revenue for the acres burned. A total of three tons of grass burned per acre was estimated by the personnel at the Spokane APCA. These figures were entered in the comments field.

9. Structural Fires - As stated in APTD-1135 four fires per 1,000 population were assumed.

10. Frost Control - Mr. Jim Ballard of the Department of Agriculture in Yakima was contacted personally. He is a noted expert in frost control and is very familiar with the activities in Washington State. Three types of frost control methods are practiced in central Washington State:

    - Orchard heating with pots fired by oil or propane
    - Wind machine operation
    - Water sprinkling and spraying.

    A recent trend has been to replace pots with wind machines and water spraying. For example about 10 wind machines were in use in 1965 and over 375 in 1974. However, in about 50% of all acres orchard heating is still practiced. The amount of fuel used varies from year to year depending on the temperature during the period between the middle of March to the beginning of June. A record 30 million gallons of distillate oil was consumed in 1968, while only 5 million gallons was consumed during the mild period of 1972. The number of nights that the units are fired also depends on the type of fruit, ranging from 10 for apples to 40 for apricots. Due to the mix in fruit for the Yakima Valley, it was estimated that the pots are fired an average of approximately 30 nights a year for a period of 1 to 8 hours. Table 3 has been constructed to reflect the discussion with Mr. Ballard and the information obtained from a pamphlet titled "Facts about Yakima Washington and the Yakima Valley."

Table 3. ORCHARD HEATING IN WASHINGTON

	Orchard industry	Frost control method	#N	Orchard acres	Heated (%)	No. heater
Benton	Major	1,2,3	30	25,000	50	437,500
Chelan	Minor	1	10	100	100	3,500
Franklin	Minor	Frost Free	0	-	0	0
Grant	Major	1,2,3	10	5,000	50	87,500
Kittitas	Major	1,2,3	30	5,000	50	87,500
Okanogan	Minor	1	10	200	100	7,000
Walla Walla	Minor	1	10	100	100	3,500
Yakima	Major	1,2,3	30	50,000	50	875,000

IDAHO

The area sources quantities found in the NEDS printout were reviewed to reflect the addition of more point sources into the inventory. Entries left blank by the last review were completed with 1972 information.

1. Industrial Fuel - It was found that the total industrial point source usage exceeded in all categories the total given in the 1972 Mineral Industry Surveys.

2. Gasoline Fuel - Both highway and off-highway 1972 state totals were obtained from U.S. Dept. of Commerce, Bureau of Public Roads (Form PR-551). The county totals were calculated by apportioning the total by county tax revenue. It was further broken down to light-duty and heavy-duty by 1972 vehicle registration.

3. Aircraft - Activities were provided by TAP Economic Consultants and Idaho's Dept. of Aeronautics.

4. Measured Vehicle Miles - The 1972 total VMT's from the Dept. of Highways, Planning & Traffic Division was apportioned to counties by the 1968 county VMT's.

5. Forest Fires and Slash Burning - The county totals from the state forests were provided by the State Environmental personnel. Data for the national forests was from the regional offices in Montana and Utah. A forest map was used to apportion forest totals to counties.

SECTION IV

NEDS INVENTORY SUMMARY FOR PRIMARY ABATEMENT COUNTIES IN WASHINGTON

The primary abatement counties for Washington, and the pollutants which must be reduced to meet the air quality standards by 1975 and/or 1977 are given below:

County	Criteria pollutant
Clark	Particulate, SO_2
Cowlitz	Particulate, SO_2
King	Particulate, CO
Pierce	Particulate, SO_2
Snohomish	Particulate
Spokane	Particulate, CO

The point and area source emission trend summary, (Tables 4 to 9), were generated for the years 1970/71, 1972/73, 1975 and 1977 for the criteria pollutants of each county. The histogram for the criteria pollutant of each county is found in Figures A-1 to A-11 of the Appendix.

POINT SOURCE SUMMARY

The procedure and assumptions for completing the table are outlined below.

1. The 1970/71 annual emission data was obtained from a 1973 NEDS printout. Appropriate corrections were made when the data was found to be incorrect. This was accomplished by establishing a point-to-point correspondence with the latest updated NEDS forms. Extrapolation or substitution of the corresponding point source

Table 4. CLARK CO. POINT AND AREA SOURCE EMISSIONS INVENTORY (P-Particulates; SO_2-Sulfur Dioxide; Q-NEDS Area Source Entry) (tons/year)

Source category	1971/72					1972/73					
	%S	%A	Q	P	SO_2	%S	%A	Q	P	SO_2	
I. Point Sources				14,599	6,123				11,330	4,996	
II. Area Sources											
A. Residential											
Bituminous coal	4.9	12.2	1	0	1	4.9	12.2	(1)	0	1	
Distillate oil	0.5		1,351	68	486	0.5		547	27	197	
Residual oil	1.9		0	0	0	1.9		0	0	0	
NG			65	6	0			50	5	0	
Wood			75	94	2			(75)	94	2	
B. Comm-Inst.											
Bituminous coal	4.9	12.2	0	0	0	-100%		0	0	0	
Distillate oil	0.5		0	0	0			170	13	61	
Residual oil	1.9		0	0	0			0	0	0	
NG			54	5	0			32	3	0	
Wood			0	0	0			0	0	0	
C. Industrial											3% growth/y
Bituminous coal	4.9	12.2	0	0	0	4.9		0	0	0	
Coke	-		0	0	0	-		0	0	0	
Distillate oil	0.5		0	0	0	0.5		170	13	61	
Residual oil	1.9		0	0	0	1.9		378	43	571	
NG			271	24	1			122	11	0	
Wood/process gas			0	0	0			0	0	0	
D. On-Site Inc.											
Residential			1,143	171	3	-50%		572	86	2	
Industrial			240	240	18			0	0	0	
Commercial			38	38	3			0	0	0	
E. Open Burning											
Resid			88	70	4			44	35	2	
Industrial			120	96	6			0	0	0	
Commercial			29	23	1			0	0	0	
F. Off Highway											
Gasoline			2,924	10	6			(2,924)	10	6	
Diesel			357	64	9			(357)	64	9	
RR-Diesel			94	12	27			175	22	50	
G. Aircraft											
Military			0	0	0			0	0	0	
Civilian			16	0	0			5,500	16	3	
Commercial			0	0	0			0	0	0	
H. Vessels											
Diesel			151	19	49			(151)	19	49	
Residual			0	0	0			0	0	0	
Gasoline			304	1	1			(304)	1	0	
I. Dirt roads			(490)	466	0			490	466	0	-20%
J. Dirt air strips			(6,000)	1	0			6,000	1	0	
K. Construction land area			(Assume 100 acres)	120	0			(100 acres-1 mo.)	120	0	
L. Forest fires			(7,500)	64	0			7,500	64	0	
M. Slash burning			(13,015)	111	0			13,015	111	0	
N. Frost control			0	0	0			0	0	0	
O. Structural fires			(2,048)	70	0			2,048	70	0	
P. Vehicle emission (all)				337	247				337	247	
Totals				16,703	6,987				12,961	6,257	

e 4. CLARK CO. POINT AND AREA SOURCE EMISSIONS INVENTORY
(P-Particulates; SO_2-Sulfur Dioxide; Q-NEDS Area Source Entry) (tons/year)

1971/72			1972/73						1975			1977	
Q	P	SO_2	%S	%A	Q	P	SO_2		P	SO_2		P	SO_2
	14,599	6,123				11,330	4,996		8,598	4,958		3,202	5,214
1	0	1	4.9	12.2	(1)	0	1						
1,351	68	486	0.5		547	27	197						
0	0	0	1.9		0	0	0						
65	6	0			50	5	0						
75	94	2			(75)	94	2						
0	0	0	-100%		0	0	0						
0	0	0			170	13	61						
0	0	0			0	0	0		879	1,075		931	1,139
54	5	0			32	3	0						
0	0	0			0	0	0						
								3% growth/yr			3%/yr. growth		
0	0	0	4.9		0	0	0						
0	0	0	-		0	0	0						
0	0	0	0.5		170	13	61						
0	0	0	1.9		378	42	571						
271	24	1			122	11	0						
0	0	0			0	0	0						
1,143	171	3	-50%		572	86	2						
240	240	18			0	0	0		0	0		0	0
38	38	3			0	0	0		0	0		0	0
88	70	4			44	35	2						
120	96	6			0	0	0		0	0		0	0
29	23	1			0	0	0		0	0		0	0
,924	10	6			(2,924)	10	6						
357	64	9			(357)	64	9						
94	12	27			175	22	50						
0	0	0			0	0	0						
16	0	0			5,500	16	3						
0	0	0			0	0	0						
151	19	49			(151)	19	49						
0	0	0			0	0	0						
304	1	1			(304)	1	0						
(490)	466	0			490	466	0	-20%	373	0	-20%	298	0
,000)	1	0			6,000	1	0						
00 acres)	120	0			(100 acres-1 mo.)	120	0						
,300)	64	0			7,500	64	0						
,015)	111	0			13,015	111	0						
0	0	0			0	0	0						
,048)	70	0			2,048	70	0						
	337	247				337	247		357	262		396	278
	16,703	6,987				12,961	6,257		10,207	6,295		4,827	6,631

B

Table 5. COWLITZ CO. POINT AND AREA SOURCE EMISSIONS INVENT
(P-Particulates; SO_2-Sulfur Dioxide; Q-NEDS Area
Source Entry) (tons/year)

Source category	1970/71						1972/73				
	%S	%A	Q	P	SO_2	%S	%A	Q	P	SO_2	
I. Point Sources				20,635	11,651				22,699	10,131	
II. Area Sources											
A. Residential											
Bituminous coal	4.9	12.2	0	0	0	4.9	12.2	0	0	0	
Distillate oil	0.5		425	21	153	0.5		250	12	90	
Residual oil	1.9		0	0	0	1.9		0	0	0	
NG			44	2	0			27	1	0	
Wood			57	71	1			(57)	71	1	
B. Comm-Inst.						-100%					
Bituminous coal	4.9	12.2	0	0	0	4.9	12.2	0	0	0	
Distillate oil	0.5		0	0	0	0.5		(111)	8	40	
Residual oil	1.9		0	0	0	1.9		0	0	0	
NG			29	1	0			22	1	0	
Wood			0	0	0			0	0	0	
C. Industrial											3%/yr. growth
Bituminous coal	4.9	12.2	0	0	0	4.9	12.2	0	0	0	
Coke			0	0	0			111	8	0	
Distillate oil	0.5		0	0	0	0.5		202	23	40	
Residual oil	1.9		0	0	0	1.9		0	0	305	
NG			253	13	0			120	6	0	
Wood/process gas			0	0	0			0	0	0	
D. On-Site Inc.											
Residential			610	92	2	-50%		305	46	1	
Industrial			113	113	8			0	0	0	
Commercial			20	20	2			0	0	0	
E. Open Burning											
Resid			47	38	2			24	19	1	
Industrial			56	45	3			0	0	0	
Commercial			16	13	1			0	0	0	
F. Off Highway											
Gasoline			1,218	4	2			(1,218)	4	2	
Diesel			111	1	3			(111)	1	3	
RR-Diesel			50	6	14			115	13	32	
G. Aircraft											
Military			0	0	0			0	0	0	
Civilian			3	0	0			3,300	9	2	
Commercial			0	0	0			0	0	0	
H. Vessels											
Diesel			335	42	109			(335)	42	109	
Residual			0	0	0			0	0	0	
Gasoline			264	1	1			(264)	1	1	
I. Dirt roads			(545)	518	0			545	518	0	-20%
J. Dirt air strips			0	0	0			0	0	0	
K. Construction land area			(100 acres-1 mo.)	120	0			(100 acres-1 mo.)	120	0	
L. Forest fires			(9,750)	83	0			9,750	83	0	
M. Slash burning			(303,000)	2,575	0			(303,000)	2,575	0	
N. Frost control			0	0	0			0	0	0	
O. Structural fires			(1,104)	38	0			1,104	38	0	
P. Vehicle emission (all)				206	151				806	151	
Totals				24,658	12,103				25,986	10,909	

Table 5. COWLITZ CO. POINT AND AREA SOURCE EMISSIONS INVENTORY
(P-Particulates; SO_2-Sulfur Dioxide; Q-NEDS Area Source Entry) (tons/year)

1970/71						1972/73					1975			1977	
%S	%A	Q	P	SO_2	%S	%A	Q	P	SO_2		P	SO_2		P	SO_2
			20,635	11,651				22,699	10,131		16,363	10,385		6,222	11,163
4.9	12.2	0	0	0	4.9	12.2	0	0	0						
0.5		425	21	153	0.5		250	12	90						
1.9		0	0	0	1.9		0	0	0						
		44	2	0			27	1	0						
		57	71	1			(57)	71	1						
					-100%										
4.9	12.2	0	0	0	4.9	12.2	0	0	0						
0.5		0	0	0	0.5		(111)	8	40						
1.9		0	0	0	1.9		0	0	0						
		29	1	0			22	1	0		3,266	665		3,462	704
		0	0	0			0	0	0						
										3%/yr. growth			3%/yr. growth		
4.9	12.2	0	0	0	4.9	12.2	0	0	0						
		0	0	0			111	8	0						
0.5		0	0	0	0.5		202	23	40						
1.9		0	0	0	1.9		0	0	305						
		253	13	0			120	6	0						
		0	0	0			0	0	0						
		610	92	2	-50%		305	46	1		0	0		0	0
		113	113	8			0	0	0		0	0		0	0
		20	20	2			0	0	0						
		47	38	2			24	19	1		0	0		0	0
		56	45	3			0	0	0		0	0		0	0
		16	13	1			0	0	0						
		1,218	4	2			(1,218)	4	2						
		111	1	3			(111)	1	3						
		50	6	14			115	13	32						
		0	0	0			0	0	0						
		3	0	0			3,300	9	2						
		0	0	0			0	0	0						
		335	42	109			(335)	42	109						
		0	0	0			0	0	0						
		264	1	1			(264)	1	1						
		(545)	518	0			545	518	0	-20%	414	0	-20%	322	0
		0	0	0			0	0	0						
		(100 acres-1 mo.)	120	0			(100 acres-1 mo.)	120	0						
		(9,750)	83	0			9,750	83	0						
		(303,000)	2,575	0			(303,000)	2,575	0						
		0	0	0			0	0	0						
		(1,104)	38	0			1,104	38	0						
			206	151				806	151		218	160		231	170
			24,658	12,103				25,986	10,909		20,261	11,210		10,247	12,037

Table 6. KING CO. POINT AND AREA SOURCE EMISSIONS INVENTORY (P-Particulates; CO-Carbon Monoxide; Q-NEDS Area Source Entry) (tons/year)

Source category	1970/71				1972/73					1975
	%A	Q	P	CO	%A	Q	P	CO		P
I. Point Sources			8,670	1,124			6,169	1,162		4,621
II. Area Sources										
A. Residential									3%/yr. growth	
Bituminous coal	12.2	41	4	18	5.7	226	23	102		
Distillate oil		18,890	945	472		11,999	600	300		
Residual oil		0	0	0		2,262	260	2		
NG		1,418	135	142		1,619	154	162		
Wood		117	146	12		(117)	146	12		
B. Comm-Inst.										
Bituminous coal	12.2	0	0	0	5.7	0	0	0		
Distillate oil		0	0	0		4,293	322	4		
Residual oil		0	0	0		1,817	209	2		
NG		486	46	49		534	50	54		
Wood		0	0	0		0	0	0		
C. Industrial										
Bituminous coal	12.2	0	0	0	5.7	0	0	0		
Coke		0	0	0		0	0	0		
Distillate oil		0	0	0		1,928	145	2		5,933
Residual oil		0	0	0		1,900	219	2		
NG		3,772	339	8		775	70	2		
Wood/process gas		0	0	0		0	0	0		
D. On-Site Inc.										
Residential		10,290	1,543	15,430		360	54	540		
Industrial		3,124	3,124	3,124		0	0	0		
Commercial		343	343	343		36	36	36		
E. Open Burning										
Residential		792	634	3,366		90	72	382		
Industrial		1,562	1,250	6,639		90	72	382		
Commercial		264	211	1,122		90	72	382		
F. Off Highway										
Gasoline		15,792	52	7,896		(15,792)	52	7,896		
Diesel		13,482	46	766		(3,482)	46	766		
RR-Diesel		846	106	550		1,454	182	945		
G. Aircraft										
Military		334	332	830		284	282	706		
Civilian		27,390	78	1,972		41,082	117	2,958		
Commercial		5,897	575	3,273		6,981	681	3,875		
H. Vessels										
Diesel		917	115	320		(917)	115	320		
Residual		1,821	209	2		(1,821)	209	2		
Gasoline		736	3	2		(736)	3	2		
I. Dirt roads		(1,090)	1,036	0		1,090	1,036	0	-50%	518
J. Dirt air strips		0	0	0		0	0	0		
K. Construction land		(Assume 100 acres 1 mo.)	120	0		(100 acres)	120	0		
L. Forest fires		(300)	3	21		300	3	21		
M. Slash burning		(83,000)	706	2,490		83,000	706	2,490		
N. Frost control		0	0	0		0	0	0		
O. Structural fires		(18,512)	629	1,851		18,512	629	1,851		
P Vehicle emissions (all)			(2,285)	(339,028)			2,285	339,028		2,422
Totals			23,685	400,850			15,139	364,388		13,494

6. KING CO. POINT AND AREA SOURCE EMISSIONS INVENTORY
(P-Particulates; CO-Carbon Monoxide; Q-NEDS Area Source Entry) (tons/year)

1970/71			1972/73				1975			1977	
P	CO	%Δ	Q	P	CO		P	CO		P	CO
8,670	1,124			6,169	1,162		4,621	1,201		2,908	1,319
						3%/yr. growth			3%/yr. growth		
4	18	5.7	226	23	102						
945	472		11,999	600	300						
0	0		2,262	260	2						
135	142		1,619	154	162						
146	12		(117)	146	12						
0	0	5.7	0	0	0						
0	0		4,293	322	4						
0	0		1,817	209	2						
46	49		534	50	54						
0	0		0	0	0						
0	0	5.7	0	0	0						
0	0		0	0	0						
0	0		1,928	145	2		5,933	25,650		6,289	27,189
0	0		1,900	219	2						
339	8		775	70	2						
0	0		0	0	0						
1,543	15,430		360	54	540						
3,124	3,124		0	0	0						
343	343		36	36	36						
634	3,366		90	72	382						
1,250	6,639		90	72	382						
211	1,122		90	72	382						
52	7,896		(15,792)	52	7,896						
46	766		(3,482)	46	766						
106	550		1,454	182	945						
332	830		284	282	706						
78	1,972		41,082	117	2,958						
575	3,273		6,981	681	3,875						
115	320		(917)	115	320						
209	2		(1,821)	209	2						
3	2		(736)	3	2						
1,036	0		1,090	1,036	0	-50%	518	0	-50%	259	0
0	0		0	0	0						
1 mo.) 120	0		(100 acres)	120	0						
3	21		300	3	21						
706	2,490		83,000	706	2,490						
0	0		0	0	0						
629	1,851		18,512	629	1,851						
(2,285)	(339,028)			2,285	339,028		2,422	146,827		2,568	81,704
23,685	400,850			15,139	364,388		13,494	173,678		12,024	110,212

B

Table 7. PIERCE CO. POINT AND AREA SOURCE EMISSIONS INVENTORY (P-Particulates; SO_2-Sulfur Dioxide; Q-NEDS Area Source Entry) (tons/year)

Source category				1970/71			1972/73					1975	
	%S	%A	Q	P	SO_2	%S	%A	Q	P	SO_2		P	
I. Point Sources				18,015	201,400				15,293	216,498		7,648	103
II. Area Sources											3%/yr. growth		
A. Residential													
Bituminous coal	4.9	12.2	13	1	12	4.9	6.0	300	30	279			
Distillate oil	0.5		5,687	284	2,047	0.3		1,134	57	245			
Residual oil	1.9		0	0	0	1.4		0	0	0			
NG			429	41	1			482	46	1			
Wood			115	144	3			115	144	3			
B. Comm-Inst.													
Bituminous coal	4.9	12.2	0	0	0	4.3	6.0	0	0	0			
Distillate oil	0.5		0	0	0	0.3		225	17	49			
Residual oil	1.9		0	0	0	1.4		1,138	131	1,267			
NG			173	16	1			165	16	0		1,942	
Wood			0	0	0			0	0	0			
C. Industrial													
Bituminous coal	4.9	12.2	0	0	0	4.9	6.0	0	0	0			
Coke			0	0	0			0	0	0			
Distillate oil	0.5		0	0	0	0.3		1,350	101	292			
Residual oil	1.9		0	0	0	1.4		1,946	224	2,165			
NG			511	47	2			429	66	2			
Wood/process gas			0	0	0			0	0	0			
D. On-Site Inc.													
Residential			3,657	549	9			180	27	1			
Industrial			989	989	74			0	0	0			
Commercial			122	122	9			18	18	1			
E. Open Burning													
Resid			281	225	14			50	40	3			
Industrial			494	395	25			50	40	3			
Commercial			94	75	5			50	40	3			
F. Off Highway													
Gasoline			6,297	21	12			(6,297)	21	3			
Diesel			999	13	26			(999)	13	3			
RR-Diesel			301	38	86			808	38	12			
G. Aircraft													
Military			653	650	124			138	137	26			
Civilian			2,295	7	1			16,083	46	9			
Commercial			0	0	0			50	5	1			
H. Vessels													
Diesel			495	62	161			(495)	62	161			
Residual			796	92	398			(796)	92	398			
Gasoline			1,110	4	3			(1,110)	4	3			
I. Dirt roads			(865)	823	0			865	823	0	-50%	412	
J. Dirt air strips			0	0	0			0	0	0			
K. Construction land			(Assume 100 acres 1 mo.)	120	0			(~ 100 acres)	120	0			
L. Forest fires			(1,150)	10	0			1,150	10	0			
M. Slash burning			(7,500)	64	0			7,500	64	0			
N. Frost control			0	0	0			0	0	0			
O. Structural fires			(3,576)	223	0			6,576	223	0			
P. Vehicle emissions (all)				(744)	(547)				744	547		789	
Totals				23,773	204,960				18,692	222,081		10,791	

IERCE CO. POINT AND AREA SOURCE EMISSIONS INVENTORY
(P-Particulates; SO_2-Sulfur Dioxide; Q-NEDS Area
Source Entry) (tons/year)

1970/71		1972/73						1975			1977	
P	SO_2	%S	%A	Q	P	SO_2		P	SO_2		P	SO_2
18,015	201,400				15,293	216,498		7,648	101,925		5,231	26,558
							3%/yr. growth			3%/yr. growth		
1	12	4.9	6.0	300	30	279						
284	2,047	0.3		1,134	57	245						
0	0	1.4		0	0	0						
41	1			482	46	1						
144	3			115	144	3						
0	0	4.3	6.0	0	0	0						
0	0	0.3		225	17	49						
0	0	1.4		1,138	131	1,267						
16	1			165	16	0		1,942	5,338		2,058	5,658
0	0			0	0	0						
0	0	4.9	6.0	0	0	0						
0	0			0	0	0						
0	0	0.3		1,350	101	292						
0	0	1.4		1,946	224	2,165						
47	2			429	66	2						
0	0			0	0	0						
549	9			180	27	1						
989	74			0	0	0						
122	9			18	18	1						
225	14			50	40	3						
395	25			50	40	3						
75	5			50	40	3						
21	12			(6,297)	21	3						
13	26			(999)	13	3						
38	86			808	38	12						
6?0	124			138	137	26						
7	1			16,083	46	9						
0	0			50	5	1						
62	161			(495)	62	161						
92	398			(796)	92	398						
4	3			(1,110)	4	3						
823	0			865	823	0	-50%	412	0	-50%	206	0
0	0			0	0	0						
120	0			(~ 100 acres)	120	0						
10	0			1,150	10	0						
64	0			7,500	64	0						
0	0			0	0	0						
223	0			6,576	223	0						
(744)	(547)				744	547		789	580		836	615
23,773	204,960				18,692	222,081		10,791	107,863		8,331	32,831

Table 8. SNOHOMISH CO. POINT AND AREA SOURCE EMISSIONS INVENTOR
(P-Particulates; Q-NEDS Area Source Entry) (tons/year

Source category	1970/71				1972/73					
	%S	%A	Q	P	%S	%A	Q	P		
I. Point Sources				8,292				5,454		
II. Area Sources										
A. Residential										
Bituminous coal	4.9	12.2	4	0	-	-	0	0	3% growth/yr	
Distillate oil	0.5		2,730	137	0.2	-	1,419	71		
Residual oil	1.9		0	0	1.3	-	0	0		
NG			211	20			207	20		
Wood			140	175			(140)	175		
B. Comm-Inst.										
Bituminous coal	4.9	12.2	0	0	-	-	0	0		
Distillate oil	0.5		0	0	0.2	-	1,832	137		
Residual oil	1.9		0	0	1.3	-	621	71		
NG			111	11			109	11		
Wood			0	0			0	0		
C. Industrial										
Bituminous coal	4.9	12.2	0	0	-		0	0		
Coke	0.5		0	0		-	0	0		
Distillate oil	1.9		0	0	0.2	-	12	1		
Residual oil			0	0	1.3	-	1,036	119		
NG			416	37			321	29		
Wood/process gas			0	0			0	0		
D. On-Site Inc.										
Residential			2,360	354			20	3		
Industrial			555	555			0	0		
Commercial			79	79			2	2		
E. Open Burning										
Resid			182	146			59	47		
Industrial			277	222			59	47		
Commercial			61	49			59	47		
F. Off Highway										
Gasoline			4,507	15			(4,507)	15		
Diesel			194	5			(407)	5		
RR-Diesel			407	24			664	81		
G. Aircraft										
Military			20	20			551	548		
Civilian			8,171	23			16,554	47		
Commercial			31	3			81	8		
H. Vessels										
Diesel			286	36			(286)	36		
Residual			198	23			(198)	23		
Gasoline			138	1			(138)	1		
I. Dirt roads			(1,195)	1,135			1,195	1,135	-50%	
J. Dirt air strips			0	0			0	0		
K. Construction land area			(100 acres-1 mo.)	120			(100 acres-1 mo.)	120		
L. Forest fires			(1,550)	13			1,550	13		
M. Slash burning			(41,750)	355			41,750	355		
N. Frost control			0	0			0	0		
O. Structural fires (tons)			(4,240)	144			4,240	144		
P. Vehicle emission (all)				509				509		
Totals				12,503				9,274		

Table 8. SNOHOMISH CO. POINT AND AREA SOURCE EMISSIONS INVENTORY
(P-Particulates; Q-NEDS Area Source Entry) (tons/year)

1970/71			1972/73				1975		1977
%A	Q	P	%S %A	Q	P		P		P
		8,292			5,454		5,008		3,529
.2	4	0	- -	0	0	3% growth/yr	0	3% growth/yr	0
	2,730	137	0.2 -	1,419	71		75		80
	0	0	1.3 -	0	0		0		0
	211	20		207	20		21		22
	140	175		(140)	175		186		197
.2	0	0	- -	0	0		0		0
	0	0	0.2 -	1,832	137		145		154
	0	0	1.3 -	621	71		75		80
	111	11		109	11		12		12
	0	0		0	0		0		0
.2	0	0	-	0	0		0		0
	0	0	-	0	0		0		0
	0	0	0.2 -	12	1		1		1
	0	0	1.3 -	1,036	119		126		134
	416	37		321	29		31		33
	0	0		0	0		0		0
	2,360	354		20	3		3		3
	555	555		0	0		0		0
	79	79		2	2		2		2
	182	146		59	47		50		53
	277	222		59	47		50		53
	61	49		59	47		50		53
	4,507	15		(4,507)	15		16		17
	194	5		(407)	5		5		6
	407	24		664	81		86		91
	20	20		551	548		581		617
	8,171	23		16,554	47		50		53
	31	3		81	8		8		9
	286	36		(286)	36		38		40
	198	23		(198)	23		24		25
	138	1		(138)	1		1		1
	(1,195)	1,135		1,195	1,135	-50%	568	-50%	284
	0	0		0	0		0		0
	(100 acres-1 mo.)	120		(100 acres-1 mo.)	120		127		135
	(1,550)	13		1,550	13		13		13
	(41,750)	355		41,750	355		376		399
	0	0		0	0		0		0
	(4,240)	144		4,240	144		153		162
		509			509		540		572
		12,503			9,274		8,421		6,830

Table 9. SPOKANE CO. POINT AND AREA SOURCE EMISSIONS INVENTORY (P-Particulates; CO-Carbon Monoxide; Q-NEDS Area Source Entry) (tons/year)

Source category	1970/71				1972/73				
	%A	Q	P	CO	%A	Q	P	CO	
I. Point Sources			9,362	44,100			4,457	37,805	
II. Area Sources									
A. Residential									
Bituminous coal	12.2	4	0	2	12.2	(41)	0	2	
Distillate oil		2,730	137	62		(2,730)	137	68	
Residual oil		0	0	0		0	0	0	
NG		211	20	21		(211)	20	21	
Wood		140	175	14		(140)	175	14	
B. Comm-Inst.									
Bituminous coal		0	0	0		0	0	0	
Distillate oil		0	0	0		1,000	75	1	
Residual oil		0	0	0		0	0	0	
NG		111	11	11		(111)	11	11	
Wood		0	0	0		0	0	0	
C. Industrial									3%/yr. growth
Bituminous coal		0	0	0		0	0	0	
Coke		0	0	0		0	0	0	
Distillate oil		0	0	0		1,000	75	1	
Residual oil		0	0	0		0	0	0	
NG		416	37	1		416	37	1	
Wood/process gas		0	0	0		0	0	0	
D. On-Site Inc.									
Residential		2,360	354	3,540		(2,360)	354	3,540	
Industrial		555	555	555		(555)	555	555	
Commercial		79	79	79		(73)	79	79	
E. Open Burning									
Residential		182	146	774		(182)	146	774	
Industrial		277	222	1,177		(277)	222	1,177	
Commercial		61	49	259		(61)	49	253	
F. Off Highway									
Gasoline		4,507	15	2,254		(4,507)	15	2,254	
Diesel		407	5	80		(407)	5	80	
RR-Diesel		194	24	126		(194)	24	126	
G. Aircraft									
Military		20	1	2		20	1	2	
Civilian		8,171	23	588		6,450	18	464	
Commercial		31	3	19		310	30	170	
H. Vessels									
Diesel		286	36	100		(286)	36	100	
Residual		198	23	0		(198)	23	0	
Gasoline		138	1	209		(188)	1	209	
I. Dirt roads		(7,995)	7,500	0		7,895	7,500	0	-10%
J. Dirt air strips		0	0	0		0	0	0	
K. Construction land area		(100 acres-1 mo.)	120	0		(100 acres-1 mo.)	120	0	
L. Forest fires		(2,250)	19	158		2,250	19	150	
M. Slash burning (agricultural)		(78,000)	(663)	(3,900)		(78,000)	663	3,900	
N. Frost control		0	0	0		0	0	0	
O. Structural fires		(4,592)	156	459		4,592	156	459	
P. Vehicle emission (all)			523	90,899			641	111,442	
Totals			20,259	149,402			15,644	161,426	

GCA

KANE CO. POINT AND AREA SOURCE EMISSIONS INVENTORY
-Particulates; CO-Carbon Monoxide; Q-NEDS Area
irce Entry) (tons/year)

1970/71			1972/73				1975			1977	
	P	CO	%A	Q	P	CO		P	CO	P	CO
	9,362	44,100			4,457	37,805		930	41,543	1,022	45,698
4	0	2	12.2	(41)	0	2					
30	137	62		(2,730)	137	68					
0	0	0		0	0	0					
211	20	21		(211)	20	21					
140	175	14		(140)	175	14					
0	0	0		0	0	0					
0	0	0		1,000	75	1					
0	0	0		0	0	0					
111	11	11		(111)	11	11					
0	0	0		0	0	0					
							3%/yr. growth			3%/yr. growth	
0	0	0		0	0	0					
0	0	0		0	0	0					
0	0	0		1,000	75	1		3,230	15,300	3,424	16,218
0	0	0		0	0	0					
416	37	1		416	37	1					
0	0	0		0	0	0					
360	354	3,540		(2,360)	354	3,540					
555	555	555		(555)	555	555					
79	79	79		(73)	79	79					
182	146	774		(182)	146	774					
277	222	1,177		(277)	222	1,177					
61	49	259		(61)	49	253					
507	15	2,254		(4,507)	15	2,254					
407	5	80		(407)	5	80					
194	24	126		(194)	24	126					
20	1	2		20	1	2					
171	23	588		6,450	18	464					
31	3	19		310	30	170					
286	36	100		(286)	36	100					
198	23	0		(198)	23	0					
138	1	209		(188)	1	209					
995)	7,500	0		7,895	7,500	0	-10%	6,750	0	-10% 6,075	0
0	0	0		0	0	0					
s-1 mo.)	120	0		(100 acres-1 mo.)	120	0					
150)	19	158		2,250	19	150					
900)	(663)	(3,900)		(78,000)	663	3,900					
0	0	0		0	0	0					
192)	156	459		4,592	156	459					
	523	90,899			641	111,442		680	44,102	720	26,032
	20,259	149,402			15,644	161,426		11,590	100,945	10,521	87,948

emission of another year was made whenever data was not available.

2. The resulting data base from the present contract was used for the 1972/73 annual emissions.

3. The 1975 and 1977 annual emission projections were made either by applying an assumed 5 percent annual growth rate for point sources in compliance; by reducing the point source emissions pertaining to the control measures stated in the compliance schedule; or by reducing the emissions below the annual allowables where no compliance schedule existed and an enforcement action would probably be taken.

   When the efficiency of the control equipment was not given in the compliance schedule, the following efficiencies were assumed:

• afterburner	90 percent for Particulates
• baghouses	95-99 percent for Particulates
• cyclones	85 percent for Particulates
• ES precipitators	95 percent for Particulates
• scrubbers	90 percent for Particulates 50 percent for SO_2 (Secondary) 90 percent for SO_2 (Primary)

AREA SOURCES

Area source data was also obtained from the NEDS printout and updated forms completed under this contract. To project 1975 and 1977 emissions, a 3 percent annual growth rate was assumed for each of the area source categories except for dirt roads. The program for paving dirt roads was estimated by John Roberts of PSAPC and others in the Highway Planning Division. The percent emission reduction was assumed to be equal to the percentage of total road miles to be paved by a given year.

Emissions by category were calculated using the same procedure used by the computer program at NEDB, Raleigh-Durham. The programmed emission factors, Table 10, were furnished by Charles Mann of NEDB. The dirt road emission factor of 1.9 lb of suspended particulates per VMT was

Table 10. AREA SOURCE EMISSION FACTORS (lb/U)[a]

		P	SO_2	CO
A.	Residential fuels			
	Bituminous coal	200	380^S	900
	Distillate oil	100	1440	50
	Residual oil	230	1590^S	2
	NG	190	6	200
	Wood	2500	50	200
B.	Commercial-industrial fuels			
	Bituminous coal	58^A	380^S	72
	Distillate oil	150	1440^S	2
	Residual oil	230	1590^S	2
	NG	190	6	200
	Wood	2500	50	200
C.	Industrial fuels			
	Bituminous coal	130^A	380^S	20
	Coke	( )	( )	( )
	Distillate oil	150	1440^S	2
	Residual oil	230	1590^S	2
	NG	180	6	4
	Wood	2500	50	200
	Process gas	180	( )	4
D.	On-site incineration			
	Residential	300	5	3000
	Industrial	2000	150	2000
	Commercial	2000	150	2000
E.	Open burning			
	Residential	1600	100	8500
	Industrial	1600	100	8500
	Commercial	1600	100	8500
F.	Off-highway fuel			
	Gasoline	6.6	3.96	1000
	Diesel	26.4	52.86	440
	RR - diesel	250	570	1300
G.	Aircraft			
	Military	1990	380	4970
	Civilian	5.69	1.13	144
	Commercial	195	43.2	1110

Table 10 (Continued). AREA SOURCE EMISSION FACTORS (lb/U)[a]

		P	SO_2	CO
H.	Vessels			
	Diesel	250	650	700
	Residual	230	1000	2
	Gasoline	8	5	3030
I.	Dirt roads	1900	0	0
J.	Dirt air strips		(1/4 mi/LTO)	
K.	Construction land area	1200/ acre-mo	0	0
L.	Forest fires	17	0	140
M.	Slash burning			
	Logging	17	0	60
	Agricultural	17	0	100
N.	Frost control		AP-42	
O.	Structural fires (4 T/structure)	68	0	200
P.	Vehicular travel			
	Light duty			
	Limited access roads	6.6	3.96	749
	Rural roads	6.6	3.96	815
	Suburban roads	6.6	3.96	991
	Urban roads	6.6	3.96	1300
	Heavy duty			
	Limited access roads	6.6	3.96	1278
	Rural roads	6.6	3.96	1388
	Suburban roads	6.6	3.96	1674
	Urban roads	6.6	3.96	2202
	Diesel types (all roads)	26.4	52.86	440.5

[a]Unit expressed on the NEDS area source printout

[S]Percent sulfur content

[A]Percent ash content

obtained from John Roberts who has conducted several studies on dirt road emissions in Washington State. The emission factor units are in lbs/(unit expressed on the NEDS area source printout). The CO vehicular emission factor changes with time because of the Federal Control Program. It changes to 275 lb/10^4 VMT and 39.6 lb/10^4 VMT for the years 1975 to 1977, respectively.

SECTION V

REFERENCES

1. A Guide for Comprehensive Emission Inventory. Environmental Protection Agency. Research Triangle Park, North Carolina. 1972.

2. A Guide for Compiling a Comprehensive Emission Inventory. Environmental Protection Agency. Research Triangle Park, North Carolina. Revised March 1973.

3. Exhaust Gases from Combustion and Industrial Processes. Report under OAP Contract EHSD 71-36. Engineering Science, Inc. Washington, D.C. October 1971.

4. Washington State Airport System Plan. The Aerospace Corporation. Seattle, Washington. June 1973.

SECTION VI

APPENDIX A

Table A-1. WASHINGTON NEDS UPDATE - 3/22/74

NEDS ID.			SIC	Company	Em. Size Code	State File No.	Add. Info. Req.	Comments
County	Plant No.	NO. OF SOURCES						
PUGET SOUND AQCA								
0980	1	1	4221	Cargill	1	21429		
	2	3	2041	Fisher Mill	1	10815	x	Stack Flow rate
	3	2	3241	Lone Star Ind	1	11339		
	4	7	3221	NWstrn Glass	1	11656		
	5	4	3321	Olympic Foundry	1	11747		
	6	5	3312	Bethlehem Steel	1	10281		
	7	3	3273	Lone Star Harbor Is	3	11904		
	8	5	3312 3743	Pacific Car Foundry	1	11788	x	Stack data
	9	7	2436	U.S. Plywood	1	12594		
	10	1	2421	Sea Cedar & Lumb	2	12179		Name changed to Ballard Can
	11	5	3731	Lockhead Ship Bld	1	11972		
	12	3	3731	Todd Shipyard	1	12539		
	13	4	2436	Weyerhauser S.F.	1	12756	x	Stack data for cyclonee
	14	4	2436	Weyerhauser White R	1	12757	x	Stack data for cyclone
	15	5	3721	Boeing Auburn	1	13117		
	16	1	3324	Western Steel	2	12726		
	17	3	3241	Ideal Cement	1	14046	x	Stack info for boiler
	18	1	4463	Port of Sea Pier 25	3	21278		Business type changed
	19	1	9711	Sand Pt. Naval A.S.	1	21164		
	20	1		Lockhead Ship	2	14081		Out of business
	21	3	3462	Jorgensen Steel	2	13460		
	22	1	1442	Stoneway Cedar Pit	1	13645		1974 operation

Table A-1 (cont.). WASHINGTON NEDS UPDATE - 3/22/74

NEDS ID.			SIC	Company	Em. Size Code	State File No.	Add. Info. Req.	Comments
County	Plant No.	NO. OF SOURCES						
0980	23	4	8221	Univ of Wash Plt	1	21230		
	24			Glacier S & G	1			County changed, 1560
	24	2	1442	Aggregate No. 3	2	11278		
	25	1	9199	Port Sea Pier 91	1	21278		
	26	4	3411	Am Can	1	10098		
	27	11	1442	Cadman Gravel	2	10371		
	28	1	2631	Container C. Am	3	10512		
	29	1	4953	Car-Nor Inc.	2	10598		
	30	1	4953	Butters	2	10868	x	gas flow rate
	31	2	5171	Shell Oil Co	1	16002		
	32	2	3341	Sternoff Metal	3	11028	x	gas flow rate
	33	2	5171	Arco, Sea	1	16004		
	34	4	3275	Kaiser Gypsum	1	11195		
	35	3	3721	Boeing-Renton	1	13125	x	Boilers Corp. Stack data
	36	3	3255	Interface Corp	1	14074	x	Kiln gas flow rate
	37	3	3713	Kenworth	1	11230	x	Spray booths flow rate
	38	1	1442	Martin & Upjon	1	14157		
	39	2	3251	Mutual Mat Co	1	11568		
	40	1	1429	Black Riv. Quar	1	14102		
	41	2	3324	NW Steel Rolng	2	11579		
	42	2	5171	Phillips Petro	1	21419		
	43	1	4911	Puget Pwr - Shuf	1	16023		
	44	7	3341	Quemetco	1	12466	x	Variance pending

Table A-1 (cont.). WASHINGTON NEDS UPDATE - 3/22/74

NEDS ID.			SIC	Company	Em. Size Code	State File No.	Add. Info. Req.	Comments
County	Plant No.	NO. OF SOURCES						
0980	45	3	5171	Texaco	1	16003		
	46	2	5171	Standard Oil Co.	1	21425		
	47	1	4953	Crown Cedar Prod	2	10556		
	48	4	4961	Seattle Steam-Wstn	1	13786		
	49	3	4582	Sea-Tac Airport	1	21408		
	50	1	1442	Aggregate S. No 4	1	12049		
	51	5	3721	Boeing-Pltz	1	13124	x	Boiler stack flow rate
	52	3	2869	Monsanto	1	13574		
	53	4	3721	Boeing - D.C.	2	13119	x	Boiler stack flow rate
	54	1	2951	Wash Asph. Redm	3	14032		
	55	1	2951	Wash Asph - Isaq	3	14042		
	56	1	2951	Wash Asph - Kent	2	13723		
	57	1	2951	Wash Asph - Sea	3	14040		
	58	1	2751	Craftman Press	3	13218		
	59	1	4953	Preston Mill	3	11949		
	60	1	3341	Material Reclain	3	11439		
	61	4	3721	Boeing Kent	2	13121		
	62	1	2011	Auburn Packing	3	10185		Out of Business
	63	1	2421	Seaboard Lumber	3	12174		
	64	1	5093	Sternoff Metals	3	10979		
	65	1	2841	Chemithon	3	13182		
	66	1	1542	Gen Construction	3	28001	x	Mobile source
	67	1	4953	Pacific Iron Metal	3	20765		

Table A-1 (cont.). WASHINGTON NEDS UPDATE - 3/22/74

NEDS ID.			SIC	Company	Em. Size Code	State File No.	Add. Info. Req.	Comments
County	Plant No.	NO. OF SOURCES						
0980	68	1	3411	National Can	2	21468		
	69	1	2951	Assoc. S & G - Renton	3	13711		
	70	1	2951	Assoc. S & G - Tuk	3	13710		
	71	1	2951	Assoc. S & G - Auburn	3	13709		
	72	1	2951	Assoc. S & G - Fed. Way	3	14076		
	73	1	2951	Assoc. S & G. - Sea	3	14030		
	74	1	2951	Watson Asph - NE80	3	21296		
	75	1	2951	Watson Asph - NB	3	21295		
	76	2	4961	Seattle Steam	2	13787		
	77	1	1429	Sunset Quarry	2	14114		
	78	1	1442	Corliss Redi-Mix	2	16015		
	79	1	1442	Segale, Kent	2	16017		
	80	1	1442	Segale, Renton	2	16042		
	81	1	1442	Redmond Sand Grav.	2	14137		
	82	1	9711	Fort Lawton	2	21275		
	83	1	9229	Sea Public Safety Build	2	21311		
	84	1	7999	Seattle Center	2	21314		
	85	1	8062	Vets Hospital	2	21322		

Table A-1 (cont.). WASHINGTON NEDS UPDATE - 3/22/74

NEDS ID.			SIC	Company	Em. Size Code	State File No.	Add. Info. Req.	Comments
County	Plant No.	NO. OF SOURCES						
1020	1	2	9711	Naval Torpedo Station	2	14079		
	2	8	2421	Pope & Talbot	2	15031	x	Stack data for cyclones
	3	9	3731	Puget Sound Naval Shpyrd	1	14082	x	Ec arc. opt. hours
	4	1	4953	Howerton Silverdale	3	15066		
	5	1	2951	Ace Paving	3	21299		
	6	2	2951	N. Kitsap G & A	2	15063		
	7	1	9711	USN Bangor Depot	3	21323		
1560	1	6	3331	ASARCO	1	10093	x	Anode flow rate
	2	7	2812	Hooker Chem.	1	11053		
	3	3	2436	North Pac Plywood	1	11670	x	Stack data for dryers & cyl.
	4	1	3313	Ohio Ferro Alloys	1	11741		Out of Business 11/72
	5	3	3274	Domtar Chem	1	11820	x	Stack data
	6	3	2421	St. Regis Sawmill	1	12315		
	7	3	2436	Puget Snd Plywd	1	11974	x	Stack flow rate (ven dry & cyl)
	8	15	2611	St. Regis Kraft	1	12317		
	9	3	2436	Buffelen Woodw	2	10340	x	Stack data
	10	2	2431	West Coast Door	2	12716	x	Cyclone Stack data
	11	7	3296	U.S. Gypsum	1	12609		
	12	3	2621	Boise Cascade	1	12711		
	13	6	9711	McChord AFB	1	21276		
	14	4	4463	Port of Tacoma	2	14023		

Table A-1 (cont.). WASHINGTON NEDS UPDATE - 3/22/74

NEDS ID.			SIC	Company	Em. Size Code	State File No.	Add. Info. Req.	Comments
County	Plant No.	NO. OF SOURCES						
1560	15	3	8361	Wash. Soldiers Home	1	21212		
	16	1	9223	McNeil Is Penitent	1	21279		
	17	1	1442	Lone Star Pit	2	21293		
	18	1	4953	Purdy Disposal Site	3	21334		
	19	5	3334	Keiser Al	1	13461		
	20	10	9711	U.S. Army, Ft. Lewis	1	21277		
	21	4	5171	Sound Refining	2	13828		
	22	6	5171	U.S. Oil Refining	1	12593	x	72 Crude Through-put
	23	4	3324	Atlas Foundry	3	10176	x	Ovens Stack data
	24	2	2952	Certain Teed	3	10496		
	25	2	3272	Concrete Tech.	3	10428		
	26	2	2421	Dickman Lumber	1	10621	x	Cyclone flow rates
	27	2	2436	Lyle Wood Prod	2	10630	x	Cyclone Flow rates
	28	4	2892	Dupont Co	1	10665	x	Operating, stack flow rates
		4	2048	Western Farmer	1	13988		
	30	3	2431	Lianga Pac	2	13511	x	Cyclone flow rate
	31	3	3251	Mutual Matl	1	16065	x	Grinding stack data
	32	2	5171	NW Petrol	1	21332		Above: Check kiln emissions
	33	1	2431	Crawford Door	1	14072	x	Stack data for cyclones
	34	1	1442	Glacier S & G	1	14072		
	35	2	8299	Wash Rainer Schl	1	20188		
	36	1	2655	Fibreboard	2	10805		
	37	4	2819 3369	Penwalt	2	11866	x	Process Stack Data

Table A-1 (cont.). WASHINGTON NEDS UPDATE - 3/22/74

NEDS ID.			SIC	Company	Em. Size Code	State File No.	Add. Info. Req.	Comments
County	Plant No.	NO. OF SOURCES						
1560	38	2	2818	Reichhold	2	12048	x	Oven flow rate
	39	2	4961	Consumer Central	2	13208		
	40	1	2951 1442	Shotwell J.D.	2	13803		
	41	1	2431	Dohlkie, Inc.	3	17131	x	Stack flow rate for cyclone
	42	3	2436	Farwest Plywd	3	10791	x	Cyclone flow rate
	43	1	3324	Fick Foundry	2	10806	x	Stack data
	44	1	4953	Town of Orting	3	28042		Presently down
	45	2	5093	General Metal	3	28066	x	Stack data
	46	1	1442	Holroyd Co	3	11050		
	47	1	4953	Camran Corp	3	28067		
	48	1	4221	Export Grain	3	11857	x	Flow rate, process rate
	49	1	2077	Johnson Mfg	3	11175	x	Stack data, will move to TAC
	50	1	2951 1442	Woodworth (104th)	3	14101	x	Stack data for dryer
	51	1	"	Woodworth East D	3	14016		
	52	1	"	Asphalt Pav - Tac	3	13055		
	53	1	"	Asphalt Pav - Puy	2	20081		
	54	1	"	Cascade Asph	2	13173		
	55	1	"	Tacoma Asph	3	21085		
	56	1	"	Lige Dickson	3	21291		
	57	1	"	Spadoni Asph	3	21292		
	58	2	2892	Trojan - US Powder	2	13909	x	Person to contact, stack rate
	59	1	1442	Woodworth Hyleb	2	16043		
	60	1	8062	VA Hosp. Am. Lake	2	21173		

Table A-1 (cont.). WASHINGTON NEDS UPDATE - 3/22/74

NEDS ID.			SIC	Company	Em. Size Code	State File No.	Add. Info. Req.	Comments
County	Plant No.	NO. OF SOURCES						
2000	24	1	4953	Loth Shingle	1	11344		
	25	1	4953	Miller Shingle	1	11507		
	26	1	4953	Portage Crk Mill	1	11930		
	27	1	4953	Rosler Timber	1	12094		
	28	1	4953	C & L Cedar	1	12473		
	29	1	4953	Enterprise Lumber	1	13300		
	30	1	4953	Ford Cedar	1	16058		
	31	1	3321	Sather Mfg	3	12153		
	32	1	2951	Knowles Co.	3	16101		
	33	1	4953	Arlington Shake	3	10164		
	34	1	3251	Lowell Brick Tile	3	11348		
	35	1	4953	Mani Cedar	3	11142		
	36	2	1442	Sndhomish No. 2	2	21297		
	37	2	2951	Snohomish Co. No. 3	1	21298		
	38	4	5171	Standard Oil	1	21424		
	39	3	3721	Boeing - Everett	2	13120		
	40	1	2951	Joplin Pav	3	20436	x	Person to contact
	41	1	2951	Wash. Asph	2	14035		
	42	1	4953	City of Monroe Dump	3	16047		
	43	2	3291	Pacific Grinding Wheel	3	11801	x	Process & Stack data
	44	1	9223	Monroe Reformatory	2	21274		
	45	1	1429	Monroe Quarry	3	14111		
	46	1	4953	Sultan Dump	3	17034		

Table A-1 (cont.). WASHINGTON NEDS UPDATE - 3/22/74

NEDS ID.			SIC	Company	Em. Size Code	State File No.	Add. Info. Req.	Comments
County	Plant No.	NO. OF SOURCES						
2000	47	1	2421	Summit Timber	2	12378	x	Check Stack Flow Rate
	48	1	4953	Lake Stevens Dump	2	16046		
	49	1	4953	Warm Beach Dump	1	16048		
	50	1	2421	Sandvig Lumber	3	17130	x	Person to contact, process data

Table A-1 (cont.) WASHINGTON NEDS UPDATE - 3/22/74

NEDS ID.			SIC	Company	Em. Size Code	State File No.	Add. Info. Req.	Comments
County	Plant No.	NO. OF SOURCES						
Southwest APCA								
0360	1	2	5171	Pacific Supply	2	1069		
	2	1	4221	United Grain	1	1064		
	3	3	2083	Great Western Malt	1	3042	x	Kiln Stack Data
	4	2	3411	National Can	2	1013	x	Bak. Ov. Stack Data
	5	20	2611	Crown Z (Kraft Mill	1	3025	x	Incinerator Stack Data
	6	2	2421	Lumber Specialties	3	3057		
	7	7	2436	Inter. Paper	1	3046	x	Cyclones & Veneer D. Flow rates
	8	6	2436	Fort Vancouver	2	1006	x	Veneer Dryer Stack Data
	9	3	3291	Carborundum	1	1000	x	Handling & Grinding Data
	10	8	2611	Crown Z (Sulfite Mill)	1	1021	x	Paper Mach Stack Data
	11	7	3334	Alcoa - Vancouver	1	1020		
	12	1	5172	Am. Mineral Spirit	3	1079		
	13	6	2621	Boise Cascade	1	3196		
	14	1	3273	Aphis Ready Mix	3	3195		
	15	1	3295	Smithrock Quarry	3	5895		
	16	2	2865 2641	Crown Z (Chem Prod & Res Dv)	2	1037	x	Paper Mach Stack Data
	17	4	2436	Vanply Inc.	2	1071	x	Cyclones & Dryers Stack Data
	18	2	1442 2951	Acme Constr. Co.	2	1076 0624	x	Asph. Dryers' Stack Data
	19	1	2048	Jantzen Inc.	2	0031		
	20	3	2421	Pac. Wood Treat	2	3072		
	21	2	4953 2429	Bridge Shingle Mill	2	3010	x	Cyclones Stack Data

Table A-1 (cont.). WASHINGTON NEDS UPDATE - 3/22/74

NEDS ID.			SIC	Company	Em. Size Code	State File No.	Add. Info. Req.	Comments
County	Plant No.	NO. OF SOURCES						
0360	22	1	2654	Weyerhauser (Vanc)	2	3112		
	23	3	2819	FMC Corp - Inorg. Chem	2	1012	x	D. Cells Stack Data
	24	2	3321	Vanc. Iron & Steel	2	0034		
	25	1	8211	Battle Gnd H.S.	2	2001		
	26	1	8211	State Schl for Blind	3	2047		
	27	1	8211	State Schl for Deaf	2	2048		
	28	1	8211	Hudson Bay H.S.	3	2022		
0480	1	3	4221	North Pac. Grain	2			
(DOE)	2	17	2611	Longview Fibre (Kraft)	1			
(DOE)	3	13	2611	Weyerhauser (Kraft)	1			
(DOE)	4	2	2611	Weyerhauser (Sulfite)	1			
	5	18	2436	Wey. Plywood	1		x	Cyclone & Veneer Flow Rates
	6	1	2421	Wey. Planer Mill	1		x	Cyclone Flow Rates
	7	2	2812	Wey. Chlorine Plant	3		x	Stack Flow Rate
	8	2	2429	Wasser & Fluhrer	3			
	9	11	2869	Kalima Chemical	1		x	Reactor Stack Flow Rates
								& Boiler Capacity
	10	3	5171	Standard Oil Bulk T	1			
	11	3	2819	Virginia Chemical	1			
	12	4	2436	Pope & Talbot	1			

Table A-1 (cont.). WASHINGTON NEDS UPDATE - 3/22/74

NEDS ID.			SIC	Company	Em. Size Code	State File No.	Add. Info. Req.	Comments
County	Plant No.	NO. OF SOURCES						
0480	13	11	2492	Int. Paper Flakeboard	2			
	14	4	2511	Int. Paper Longbell Div.	1			
	15	5	3334	Reynolds Metals	1		x	Cable plt flow rate
	16	10	4911	Cowlitz Pwr Co.	1			
	17	3	4221	Continental Grain Co.	1		x	Cyclone Flow Rates
	18	1	3295	Coweeman Crushing	3			
	19	2	3554	Stowe-Woodward	3			
	20	2	2436	Welch Corp	1		x	Dryer Flow Rates
	21	1	3295	Wheatley & Coover	3		x	Process Op. Rate
	22	2	2421	Columbia R. Lumber Co.	2		x	Cyclone Flow Rate
	23	5	2493	Weyer. Prestock	2		x	Cyclone Flow Rate
	24	1	1426	Radakovich Rock	2			
	25 26	4 5						
1100	1	1	4953	Rackwood Lumber	1			
	2	2	4953 2421	C & E Lumber	1		x	Cyclone Flow Rate
	3	4	4953 2421	Lyle Wood Saw Mill	1			
	4	2	2421	U.S. Plywood	1			
	5	1	4953	Oregon & Wash Plywd	1			
	6	1	4953	Mt. Adams Veneer	1			
	7	1	4953	Tubafor Mill Inc.	1			
	8	4	2429	Colorshake Corp.	1		x	Cyclone Flow Rates
	9	4	2421	Cowlitz Stud Co.	1		x	Cyclone Flow Rates

GCA/TECHNOLOGY DIVISION/GCA

Table A-1 (cont.). WASHINGTON NEDS UPDATE - 3/22/74

NEDS ID.			SIC	Company	Em. Size Code	State File No.	Add. Info. Req.	Comments
County	Plant No.	NO. OF SOURCES						
1100	10	3	4911	Pac. Power & Light	1		x	No compliance Sched.
	11	2	2426	NW Hardwoods	3	3026	x	Cyclone Flow rates
	12	1	5093	Purdy Co. Chem.	1	1017		
	13	1	4353	Snider Shake Co.	2	3132		
	14	1	4953	Winlock Veneer	3	3154		
	15	1	2951	Pac. S & Gravel	2	1032		
	16	1	4953	Holman Lumber	1	3067		
	17	3	2429 4953	Shakertown Corp	2	1005	x	Boiler Capacity & Cyl Rate
	18	1	4953	Perma Prod	2	1006		
	19	2	2421	Wood Prod. Nat.	2	1000		
	20	2	2431	Cardinal Doors	2	0003		
	21	1	2431	Kinnear of Wash.	2	3076		
1960	22	3	2436	Centralia Plywood	2	3030	x	Blr size & veneer flow rate
1960	1	3	2421 4953	Broughton Lumber - Undw	1	0005		
	2	3	2436 4953	Stephenson Co-Ply	2		x	Cyclone & Veneer Flow Rates
	3	2	2421 4953	Broughton Lumb - Willard	1	0006		
	4	1	2421	Columbia Cedar	3	1002		
	5	4	2421 4953	Louisiana Pac. - Stev.	1	0009		
2240	6	2	2421 4953	Louisiana Pac - Home Val	1	0010	x	Cyclones & Dryer Flow Rates
	7	1	4953	Wilkins, Kaiser, Olson	2	0001		

Table A-1 (cont.). WASHINGTON NEDS UPDATE - 3/22/74

NEDS ID.			SIC	Company	Em. Size Code	State File No.	Add. Info. Req.	Comments
County	Plant No.	NO. OF SOURCES						
2240	1	2	4953	Moclips Cedar	2	3026		
	2	2	3273	Burns Rock	3	1000		
	3	1	4953	Anderson Shake	1	3000		
	4	1	4953	Shakerstown Corp	2	3010		

Table A-1 (cont.). WASHINGTON NEDS UPDATE - 3/22/74

NEDS ID.			SIC	Company	Em. Size Code	State File No.	Add. Info. Req.	Comments
County	Plant No.	NO. OF SOURCES						
Olympic	APCA							
0340	1	1	4953	Justis Shake	2			
(DOE)	2	1	4953	Hinghen Bros Shingle	3			
	3	7	2611	ITT-Rayonier-Prt Ang.	1		x	Blesch Plant Ht. + D.
	4	2	2436	Peninsula Plywd	1			
	5	1	4953	Hoh Cedar Prod	1			
	6	1	4953	Rosmond Bros. Lbr	1			
	7	4	2611	Crown Z. - Part Angelis	1		x	Blr. Capacity + stack Data
	8	1	4953	Nehelem Bay S. + S	1			
	9	1	4953	RCR Shake	1			
	10	1	4953	Sol Duc Shake	1			
	11	1	4953	Port Angeles Shingle	1			
	12	1	4953	Gunter Shake	3			
	13	1	4953	G & L Shake	3			
	14	1	4953	Mt. Pleasant Shake	2			
	15	1	4953	P & L Cedar Prod	2			
	16	1	4953	Davis Shake	-			
	17	1	4953	Newton Cedar Prod	2			
	18	1	4953	A & A Shake	2			
	19	1	4953	Cutrite Cedar Prod	2			
	20	1	4953	D & R Cedar Prod	2			
	21	2	2429 4953	N R Smith Shingle	2			
	22	1	4953	G - B Shake	2			

Table A-1 (cont.). WASHINGTON NEDS UPDATE - 3/22/74

NEDS ID.			SIC	Company	Em. Size Code	State File No.	Add. Info. Req.	Comments
County	Plant No.	NO. OF SOURCES						
0340	23	33	4953	U.S. Forest Service	1			Slash Burning
	24	4	4953	Department of Nat. Resources	1			Slash Burning
	25	2	4953	M & R Timber	2			

GCA/TECHNOLOGY DIVISION

Table A-1 (cont.). WASHINGTON NEDS UPDATE - 3/22/74

NEDS ID.			SIC	Company	Em. Size Code	State File No.	Add. Info. Req.	Comments
County	Plant No.	NO. OF SOURCES						
0840	1	7	2611	Weyer - Cosmoplois (Sulfite)	1		x	Rec. Blrs. Stack Data
(DOE)	2	9	2611	ITT-Rayonier-Hoquiam	1		x	Smelt Tank & Rec. Vent Data
	3	1	4953	McDonald Cedar	2			
	4	1	4953	Red Cedar Prod	1			
	5	8	2436 4953	Grays Harbor Veneer	2			
	6	11	2421	Simpson Timber-McCleary	1			
	7	12	2421	Weyer - Aberdeen	1			
	8	1	4953	Upland - Cedar	2			
	9	1	4953	H D Morris	3			
	10	1	4953	Oakville Shake	1			
	11	1	4953	Quinalt Shingle	1			
	12	1	4953	D & G Shake #1	2			
	13	1	4953	Cal Clark Cedar Prod	2			
	14	1	4953	E.C. Miller-Montesano	1			
	15	1	4953	Gold Shake Co.	2			
	16	3	3321	Long Foundry	1			
	17	1	4953	Aloha Shake	1			
	18	3	2421 4953	Aloha Lumber	1			
	19	1	4953	Daniel Cedar Prod	2			
	20	1	4953	Grays Harbor Shake	2			
	21	1	4953	Graham Shake & Shingle	1			
	22	1	4953	Ocean View Shake	2			
	23	1	4953	Northwestern Cedar	2			

Table A-1 (cont.). WASHINGTON NEDS UPDATE - 3/22/74

NEDS ID.			SIC	Company	Em. Size Code	State File No.	Add. Info. Req.	Comments
County	Plant No.	NO. OF SOURCES						
0840	24	1	4593	Northwest Cedar	3			
	25	1	4593	Takhoma Mfg.	3			
	26	1	4593	Sedy Cedar Shske	3			
	27	3	2436	Evans Prods	1		x	Cyclone Stack Data
	28	1	4953	Theel & Theel	3			
	29	1	4953	Mountain Shake	2			
	30	1	4953	Hyland Cedar Prod	2			
	31	1	4953	Elma Disposal	1			
	32	1	4953	Erickson A.E. Eng	1			
	33	1	4953	Hoqism City Dump	1			
	34	1	4953	E. Grays Harbor Disposal	2			
	35	1	4953	Praire Shake	3			
	36	1	4953	Pacific Cedar	3			
	37	1	4953	Weaver Shake	-			
	38	1	4953	Wirmingham Shake	3			
	39	1	4953	D & G Shake #2	-			
	40	1	2421	Miller E.C. - Aberdeen	2			
	41	4	3554	Lamb Greys Harbor	2			
	42	1	4953	Apex Hip & Ridge	2			
	43	18	4953	U.S. Forest Service	1			Slash Burning
	44	8	4953	Weyerhauser	1			Slash Burning
	45	7	4953	Dept. of Nat. Resources	1			Slash Burning
	46	2	4953	Bureau of Indian Affairs	1			Slash Burning

Table A-1 (cont.). WASHINGTON NEDS UPDATE - 3/22/74

NEDS ID.			SIC	Company	Em. Size Code	State File No.	Add. Info. Req.	Comments
County	Plant No.	NO. OF SOURCES						
0840	47	1	4953	Simpson Timber	1			Slash Burning
	48	1	4953	Mayr Bros Logging	2			Slash Burning
	49	1	4953	Boise Cascade	2			Slash Burning

Table A-1 (cont.). WASHINGTON NEDS UPDATE - 3/22/74

NEDS ID.			SIC	Company	Em. Size Code	State File No.	Add. Info. Req.	Comments
County	Plant No.	NO. OF SOURCES						
0900	1	6	2611	Crown Z Prt Townsend	1		x	Process Fuel Data
(DOE)	2	1	4953	L & B Lumber	2			
	3	1	4953	Jefferson Shake	2			
	4	1	4953	Allen Logging	1			
	5	31	4953	Dept. of Nat. Resources	1			Slash Burning
	6	7	4953	U.S. Forest Service	1			Slash Burning
	7	2	4953	Pope & Talbot	1			Slash Burning
	8	1	4953	Crown Z	1			Slash Burning
	9	1	4953	Valley Ranches	2			Slash Burning
1220	1	1	4953	Versapanel	1			
	2	5	2436	Simpson Tiruber-Shelton	1			
	3	1	4953	Simpson City Dump	1			
	4	10	4953	U.S. Forest Service	1			Slash Burning
	5	1	4953	Port Blakely Co.	2			Slash Burning
	6	1	4953	Dept. of Natural Resources	2			Slash Burning
	7	1	4953	Weyerhauser Co.	2			Slash Burning
1480	1	1	4953	Raymond Shake-Post Dock	2			
	2	1	4953	Raymond Shake-Raymond	1			
	3	1	4953	Weyco Shake Mill	1			
	4	6	2421	Weyco Saw Mill	1			
	5	1	4953	Lebrau Shake	1			

GCA/TECHNOLOGY DIVISION GCA

Table A-1 (cont.). WASHINGTON NEDS UPDATE - 3/22/74

NEDS ID.			SIC	Company	Em. Size Code	State File No.	Add. Info. Req.	Comments
County	Plant No.	NO. OF SOURCES						
1480	6	1	4953	Long Beach Dump	2			
	7	1	4953	Wash-Oregon Hardwood	2			
	8	14	4953	Weyerhauser Co	1			Slash Burning
	9	5	4953	Dept of Nat. Resources	1			Slash Burning
	10	2	4953	Olympic Hardwood	1			Slash Burning
2180	1	2	2499	Cascade Pole	3			
	2	3	2436	Lacey Coply	3			
	3	3	4953	Weyerhauser Co.	1			Slash Burning
	4	2	4953	Scott Paper Co	1			Slash Burning
	5	2	4953	Simpson Timber	1			Slash Burning
	6	1	4953	Port Blakely	2			Slash Burning

EPA/TECHNOLOGY DIVISION

Table A-1 (cont.). WASHINGTON NEDS UPDATE - 3/22/74

NEDS ID.			SIC	Company	Em. Size Code	State File No.	Add. Info. Req.	Comments
County	Plant No.	NO. OF SOURCES						
SPOKANE APCA								
2060	1	2	5171	Continental Oil-Hillyard	2			
	2	2	5171	Humble Oil	2			
	3	1	5171	Yellowstone Pipeline -G	2			
	4	1	5171	Yellowstone Pip.-Fairchild	2			
	5	3	5171	Continental Oil - E. Shore	2			
	6	2	5171	Phillips Pet	1			
	7	1	5171	Standard Oil	2			
	8	1	2041	Spokane Flour Mills	2			
	9	1	2041	Nat. Biscuit	1			
	10	1	5153	N. Pac. Grain	2			
	11	2	2951	United Paving	2			
	12	2	2436	Suntex Veneer	1			
	13	3	3273	Central Premix - N. Div	1			
	14	4	1442	Central Premix - Gov. Way	1			
	15	6	2951	U. Paving	2			
	16	5	3334	Kaiser Meade	1			
	17	2	3275	Green Acres	2			
	18	1	3321	Inland Foundry	2			
	19	1	2421	Long Lake Lumber	1			
	20	1	2048	Inland Farmers	2			
	21	1	3233	Acme Concrete	2			
	22	2	4911	Wash. Wat. Power	1			

Table A-1 (cont.). WASHINGTON NEDS UPDATE - 3/22/74

NEDS ID.			SIC	Company	Em. Size Code	State File No.	Add. Info. Req.	Comments
County	Plant No.	NO. OF SOURCES						
2060	23	4	3341	Kaiser Trentwood	1			
	24	1	3273	Ace Concrete	2			
	25	1	9711	Fairchild AFB	2			
	26	1	2951	Inland Asphalt	2			
	27	1	3341	Hillyard Process	-			
	28	1	5153	Inland Emp	3			
	29	1	8211	Spokane Public School	-			
	30	1	8211	Deer Park School	-			
	31	1	5093	Am. Recycling	3			
	32	1	5153	Western Farmers	3			
	33	3	5153	Spokane Seed	3			
	34	1	4783	Spokane Transit	-			
	35	1	2077	Spokane Rendering	-			
	36	1	5153	Palouse Seed	3			
	37	1	4953	Meade School	-			
	38	1	2041	Centennial Mills	-			
	39	1	5153	Cheney Grain Growers	2			
	40	1	4784	Burl. Northern	-			
	41	1	2047	Ralston Purina	-			
	42	1	3011	Gates Tire Center	-			
	43	1	5153	Boyd - Conlee	-			
	44	1	3011	Post St. Tire	-			
	45	1	3011	Firestone Tire	-			

Table A-1 (cont.). WASHINGTON NEDS UPDATE - 3/22/74

NEDS ID.			SIC	Company	Em. Size Code	State File No.	Add. Info. Req.	Comments
County	Plant No.	NO. OF SOURCES						
2060	46	1	3011	Les Swab Tire	-			
	47	1	2095	Matthew & Kerr	-			
	48	1	2711	Spokesman-Review	-			
	49	1	0783	Smith Bros. Florist	-			
	50	1	4953	St. Vincent De Paul	-			
	51	1	2951	Inland Asph.-Geiger	3			

Table A-1 (cont.). WASHINGTON NEDS UPDATE - 3/22/74

NEDS ID.			SIC	Company	Em. Size Code	State File No.	Add. Info. Req.	Comments
County	Plant No.	NO. OF SOURCES						
NW	APCA							
0880	1	1	4953	Waterman Mill	1			
1940								
(DOE)	1	7	2611	Scott Paper	1			
	2	3	2819	Allied Chemical	1			
	3	18	2911 5091	Texaco	1			
	4	8	3321	Bendix Skagit	2			
	5	31	2911	Shell Oil	1			
	6	3	1459	NW International	1			
	7	7	2436	Publisher Forest Product	1			
	8	4	2048	Cris Knutson	3			
	9	2	4953	Supreme Cedar	1			
	10	1	4953	Pew Shake	1			
	11	1	4953	Clear Shake	1			
	12	2	4953	Superior Shake	1			
	13	1	4953	Hamilton Cedar Prod	3			
	14	1	4953	Klingman Brothers	1			
	15	1	4953	Gregory Product	1			
	16	1	8063	N. State Hospital	3			
	17	2	2865	N.W. Petroleum	2			
	18	1	2077	T.& H Rendering	3			
	19	1	2875	San Juan Fertz.	3			
	20	1	4953	Jones Shake	1			

Table A-1 (cont.). WASHINGTON NEDS UPDATE - 3/22/74

NEDS ID.			SIC	Company	Em. Size Code	State File No.	Add. Info. Req.	Comments
County	Plant No.	NO. OF SOURCES						
(DOE)	21	1	4953	Hurn Shingle	1			
	22	1	4953	Prsine Shake	1			
	23	1	2421	Goodyear Nelson	3			
	24	1	2077	Moore Clark	1			
	25	1	2048	Pierson Dehydr.	3			
	26	1	4953	Bert Robinson	3			
	27	1	8062	Island Hosp.	3			
	28	1	2875	Wolfkill Feed	3			
	29	1	3274	Pac. Western	3			
	30	1	2429	Lacomer Cedar	3			
	31	1	4953	Godfrey Shake	1			
2400								
(DOE)	1	5	3334	Intalco Aluminum	1			
	2	4	2432	Mt. Baker Plywood	1			
	3	4	3241	Columbia Cement				
	4	22	2611 2621	Geo Pacific	1			
	5	24	2911	Mobil Oil				
	6	3	1459	Olivine Corp.	2			
	7	20	2911	Arco Inc.	1			
	8	1	2091	Blaine Prst.	3			
	9	1	2048	Ellen Bass Seed Co.	2			
	10	1	2875	Wolfkill Feed	3			
	11	1	4953	Northern Cedar Co.	1			

Table A-1 (cont.). WASHINGTON NEDS UPDATE - 3/22/74

NEDS ID.			SIC	Company	Em. Size Code	State File No.	Add. Info. Req.	Comments
County	Plant No.	NO. OF SOURCES						
2400								
(DOE)	12	1	2091	AK Packer Assoc.	3			
	13	1	4953	Cedarville Shake	1			
	14	1	4013	Lake Whatcom Railroad	3			
	15	1	4953	Great Western Lumber	1			
	16	1	4953	Valley Shake	1			
	17	1	4953	Sexon Shake	1			

Table A-1 (cont.). WASHINGTON NEDS UPDATE - 3/22/74

NEDS ID.			SIC	Company	Em. Size Code	State File No.	Add. Info. Req.	Comments
County	Plant No.	NO. OF SOURCES						
DOE	- SPOKANE, TRI COUNTY & DOUGLAS APCA							
0040	1	1	-	McAtee Heathe	-			Moved to Idaho (OOB)
	2	1	1442	Columbia S & G	3			
	3	1	4911	Wash. Water Power	3		x	Little information
0080	1	2	2421 4953	Guy Bennett Lumber	2			
0300	1	7	3334	Alcoa-Wenatchee	1		x	Anode Stack & Emissions
	2	2	2421	Peshastin For. Prod.	1			
	3	1	2951	Morril Asphalt-Wenachee	1			
	4	2	-	Black Construction	-			(OOB)-Same as ID 5
	5	2	2421 4953	Ardenvoir Lumber Company	1			
	6	1	2421	Cashmere Lumber	1			
	7	1	2032	Tree Top, Inc.	3		x	Stack Data
0680	1	4	2421 4953	San Poil Lumber	1		x	Cyclone Stack Data
	2	2	2421 4953	Matney Lumber	1		x	Cyclone Stack Data
	3	2	"	Branner Lumber	1		x	Cyclone & Wigwam info.
	4	2	4953	Hathaway Lumber	1			
	5	1	4953	Hildenbraut Impl.	3			
	6	1	4953	Larch Creek Lumber	1			
	7	1	4953	Winsor Lumber	3			

Table A-1 (cont.). WASHINGTON NEDS UPDATE - 3/22/74

NEDS ID.			SIC	Company	Em. Size Code	State File No.	Add. Info. Req.	Comments
County	Plant No.	NO. OF SOURCES						
0760	1	1	4221	Pomeroy Grain	3			
1040	1	2	2951	S & K Construction	2			
	2	1	3321	Roslyn Foundry	2		x	Annual Op. Rate
1060	1	5	3334	Martin Marietta-	1		x	Srub. & ESP Stack Data
	2	3	2421	SDS Lumber	2			
	3	2	2421 4953	Layman Lumber	1			
	4	2	4221	Klicktat Valley Grain	2		x	Any controls?
	5	2	2421	St. Regis Paper	1		x	Cyclone Data
	6	2	2436	Bingen Plywood	2		x	Veneer & Planning Data
	7	1	4922	El Paso Nat. Gas.	-			New Source in 1973
1120	1	4	2421	Lincoln Mill	1			
	2	1	2951	S & D Paving	1		x	Stack Data
1380	1	7	2436	Biles Coleman (Omak)	1		x	Veneer & Cyclone Stack Data
	2	3	2421	Biles Coleman (Twisp)	1		x	Cyclone Stack Data
	3	4	2421 4953	Zosel Lumber - Oroville	1		x	" " "
	4	1	2879	Agro Minerals - Ellisferd	2		x	Stack & Operating Data
	5	1	3295	Pacific Caleium Carb-Loomis	3			
	6	1	3273	Mardix, Elver City	2		x	Operating Rate
	7	2	2421 4953	E. E. Brown - Okanogan Co.	2		x	Cyclone Data

Table A-1 (cont.). WASHINGTON NEDS UPDATE - 3/22/74

NEDS ID.			SIC	Company	Em. Size Code	State File No.	Add. Info. Req.	Comments
County	Plant No.	NO. OF SOURCES						
1540	1	3	3241	Lehigh Portland Cement	1			
	2	3	2421 4953	Lousianne Pac.	1			
	3	1	4953	Ford Timber	2		x	Operating Rate
	4	1	4953	Plummer Pole - Jone	3		x	" "
	5	1	4953	Ponderay Lumber	3			
	6	1	2421	Single Tree Mill - Elk	3			Out of Business
	7	1	1031	Pend Orielle Mines	3			Little Info.
2080	1	1	4953	John Phopat Lumber	1			Mex Design Rate
	2	1	3295	Northport Limestone	1			
	3	1	4953	Hunter Lumber	1			
	4	3	2421 4953	Arden Lumber - Colville	2		x	Wigwam & Blr. Info.
	5	2	2421 4953	Jump off Lumber	1			
	6	2	2421 4953	Arden Lumber - Arden	1			
	7	1	2421	Springdale Lumber	1			
	8	2	4953 2436	Boise Cascade	1			Wigwam & Venner Stack Data
	9	2	4953 2436	Z. Suntex	2			Wigwam & Venner Stack Data
	10	1	2421	Avey Bros	-			
	11	1	2421	Palm Bros Lumber	3			
	12	1	4953	Vaagen Lumber	1			
	13	1	4953	Ross Pallet Shop	3			
	14	1	4953	B.J. Carney	3			
	15	2	2421 4953	JBT Lumber	2		x	Blr & Wigwam Op. Rate

Table A-1 (cont.). WASHINGTON NEDS UPDATE - 3/22/74

NEDS ID.			SIC	Company	Em. Size Code	State File No.	Add. Info. Req.	Comments
County	Plant No.	NO. OF SOURCES						
2080	16	1	3295	Allied Mineral	2		x	Operating & Stack data
	17	1	1442	Lave Mountain	3		x	Operating rate data
	18	1	3295	Mft Mineral	1		x	Operating rate data
	19	1	3295	N. Am. Non Metallic	1		x	Operating rate data
	20	1	3295	NW Marble	1		x	Operating rate data
	21	1	4953	Ron's mill	2			
	22	1	4953	Vaazen Bros	? -		x	No info
	23	1	2951	Leo Peak Paving	-			New Plant
2420	1	1	4221	Almota Elevator	1			
	2	2	3273	Cent Premix	2			
	3	3	2951 1442	United Pev.	2		1	
	4	1	2951	N.W. Construction	3		x	Other emissions
	5	1	4221	Dumas Seed	3		x	Operating rate
	6	1	4221	Spokane Seed	3		x	Operating rate
	7	1	4221	Stokeley Vancamp	2		x	Operating rate
	8	4	8221	Wash. State Univ.	1		x	Blr. Cap & Operating Rates
	9	1	4221	Whitman Co. Growers	1			
0160	1	1	5153	N. Pac. Grain	2			
	2	7	2873	Chevron Chem.	1			
	3	2	3273	Central Pre-Mix	3			
	4	1	3273	Central Pre-Mix	3			

Table A-1 (cont.). WASHINGTON NEDS UPDATE - 3/22/74

NEDS ID.			SIC	Company	Em. Size Code	State File No.	Add. Info. Req.	Comments
County	Plant No.	NO. OF SOURCES						
0160	5	2	3295	L. W. Vail	3			
	6	2	2873	Phillips Pac.	1			
	7	2	3273	Acme Concrete	3			
	8	1	5153	BI State Grainery	3			
0520	1	3	3313	Foote Min.	1			
	2	1	2951	S & D Paving				
0720	1	1	5171	Tidewater Term	1			
	2	1	5153	Wash. Grain Gr.	-			
	3	1	5153	Louis Dreyus	3			
	4	2	5092	S & D Oil	1			
	5	3	3295	Central Pre Mix	2			
	6	1	5153	Western Grain Exch.	3			
	7	1	5153	Cont. Grain	3			
	8	1	5153	Connell Grain Growers	-			
	9	1	5153	Full Circle				
0820	1			Yellowstone Pipln				
	2			Witco Chemical				
	3			Columbia SND GVL				
	4			Utah Idaho Sugar				
	5			McAtee & Heath				

Table A-1 (cont.). WASHINGTON NEDS UPDATE - 3/22/74

NEDS ID.			SIC	Company	Em. Size Code	State File No.	Add. Info. Req.	Comments
County	Plant No.	NO. OF SOURCES						
0820	6			Purdy Co.				
2280	1	1	5153	W. W. Grain Gr. (Pt. K)	3			
	2	1	5153	Cargill	3			
	3	9	2611	Boise Cascade	1			
	4	3	2421	Lousiana Pac	2			
	5	1	2951	Jones Scott	2			
	6	1	5153	W. W. Grain (Shef)	3			
	7	1	5153	W. W. Grain (Clyde)	-			
	8	1	5153	W. W. Grain (Eureka)	-			
	9	1	5153	W. W. Grain (Prescott)	-			
	10	1	5153	W. W. Grain (Ruio)	-			
	11	1	5153	W. W. Grain (Val Gr.)	-			
	12	1	5153	W. W. Grain (Dixie)	-			
	13	1	5153	W. W. Grain (Sap 1k)	-			
	14	1	5153	W. W. Grain (Dry Creek)	-			
	15	1	5153	W. W. Grain (Tracy)	-			
	16	1	5153	W. W. Grain (Bak. Lg.)	-			
	17	1	5153	W. W. Grain (6th - Rees)	-			
	18	1	5153	McGregor	-			

GCA/TECHNOLOGY DIVISION

Table A-1 (cont.). WASHINGTON NEDS UPDATE - 3/22/74

NEDS ID.			SIC	Company	Em. Size Code	State File No.	Add. Info. Req.	Comments
County	Plant No.	NO. OF SOURCES						
YAKIMA APCA								
2460	1	1	2951	Yakima Asph.	3			
	2	4	2436 4953	Boise Cascade	1			
	3	3	2951 1442	Triangle Sand & Gravel	2		X	Asphalt Stack Data
	4	3	2951 1442	Central Premix	2		X	Asphalt Stack Data
	5	3	2421	Layman's Lumber	1		X	Cyclone Stack Data
	6	3	2063	U & I Sugar	1			
	7	5	4953 2421	White Swan Lumber	1		X	Cyclone Stack Data
	8	3	4221	Western Farmer	1			
	9	1	0211	Bar "S" Feed Lot	1			
	10	1	3273	Yakima Cement- Yakima	3			
	11	1	1429	Yakima Cement - Selah	1			
	12	1	4953	CHG International	3			
	13	1	2951	Superior Asphalt	2		X	Dryer Stack Data
	14	4	4221	Logans Feed - Waputo	2			
	15	3	4221	Logans Feed - Toppenish	2			
	16	3	4221	Bleyhl Farm	2			
	17	4	4221	Calob & Sons	2			
	18	1	2048	Bar "A" Mill	2			
	19	3	4221	Kobernick Mill	2			
	20	3	4221	L.F. Zwister	2			
	21	1	0211	Leo Mahre Feedlot	2			
	22	2	4221	Van de Grang Ranch	3			

Table A-1 (cont.). WASHINGTON NEDS UPDATE - 3/22/74

NEDS ID.			SIC	Company	Em. Size Code	State File No.	Add. Info. Req.	Comments
County	Plant No.	NO. OF SOURCES						
			1442					
2460	23	3	2951	Graham & morris	3			
			3273					
	24	2	4221	Flavorland Inc.	1			
			0211					
	25	3	2011	H & H Packing	2			
	26	3	0211	Western Packing	2			
	27	1	2875	Hush & Hush Fert	3			
	28	1	2087	Haas J. Inc.	2			
	29	1	2034	Valley Evap. Co.	2		x	Stack data
	30	1	2087	Hop Extract Corp	3			
	31	1	2076	Safeway Stores, Inc.	2		x	Cyclone Stack Data
	32	1	3411	Del Monte Corp	2			
	33	1	2819	Bay Zinc Co.	2		x	Reactor Stack Data
	34	1	3321	Yakima Mach & Foundry	3		x	Cupola Stack Data
	35	1	3011	Tire Sales & Service	3		x	Stack Data

Table A-2. IDAHO NEDS UPDATE - 3/22/74

COUNTY	AQCR	PLANT ID. NO.	ESTABLISHMENT NAME	SIZE CODE	SIC
ADA					
0020	064	1	Morrison-Knudsen Company	2	2951
		2	Bairds Cleaners	3	7216
		3	Ada Sand & Gravel	-	1442
		4	Dept. of Highway	-	2951
		5	Ready To Pour	2	1442
		6	Consolidated Concrete	3	3273
		7	Concrete Redi-Mix	-	3273
		8	Nelson Sand & Gravel	1	1442 2951
		9	Quinn Robbins with mobile units	3	2951
		10	Boise Street Div.	-	2951
		11	Asphalt Paving	2	2951
		12	Boise Paving & Asphalt	2	2951
		13	Hendricks Sand & Gravel	-	1442
		14	Nelson Deppe, Inc.	2	2951
		15	Northrup King & Co.	3	5153
		16	Chevron Pipe Line, Boise	1	5171
		17	R.G. Beshey	-	1442
		18	Boise Sand & Gravel	-	1442
		19	C. Wright Const.	2	1442
ADAMS					
0040	063	1	Evergreen Forest Products	1	4953
		2	Boise Cascade	1	4953
		3	Riggin Concrete	-	3273

Table A-2 (cont.). IDAHO NEDS UPDATE - 3/22/74

COUNTY	AQCR	PLANT ID. NO.	ESTABLISHMENT NAME	SIZE CODE	SIC
BANNOCK					
0080	061	1	(Ready to Pour) Monroc	2	3273 1442
		2	Arnold's Concrete Co.	-	3273
		3	Chevron Pipe Line-Poc Farm	1	5171
		4	Idaho Portland Cement	1	3241
		5	Ready to Pour	1	3273
		6	Patton & Linton	3	3273
		7	Bannock Paving	1	2951
		8	Inkom Elevator	1	4221
		9	Pillsbury	3	4221
		10	Hunziker Sand & Gravel	1	1442
		11	Liddil Tom Excav. Cont	-	1442
		12	Tayson Construction Co.	-	1442
		13	Mitchell Construction Co.	-	1442
		14	Fought & Company	-	1442
		15	Brennan Construction Co.	-	1442
		16	J.K. Merrill & Sons	-	1442
Bear Lake					
0100	061	1	Pillsbury	3	4221
		2	Bear Lake Concrete	-	1442
		3	J.M. Hess Construction Co	-	1442
		4	Jewell Construction Co.	-	1442

Table A-2 (cont.). IDAHO NEDS UPDATE - 3/22/72

COUNTY	AQCR	PLANT ID. NO.	ESTABLISHMENT NAME	SIZE CODE	SIC
BENEWAH 0120	062	1	Potlatch Corporation	1	2421
		2	Idaho Forest Industries	1	4953
		3	Idaho Forest Industries	1	4953
		4	Regulus Stud Mills	1	4953
		5	Stateline Processor Inc	2	5153
		6	Tekoa Growers	3	4221
		7	Diamond International	-	4953
		8	Edwards Lumber Mill	-	4953
		9	Edwards Lumber Mill	-	4953
		10	Scott Paper Co.	-	4953
		11	Mitchell Lumber	-	4953
		12	Hodgson	-	4953
		13	McCall Cedar Mill	-	4953
		14	Western Cedar Sales	-	4953
		15	St. Joe Cedar, Inc.	-	4953
		16	B.C. Crocker Cedar Products	-	4953
		17	Daugherty & Sons Cedar Products	-	4953
		18	Pacific Crown	-	4953
		19	Hays & Sons	2	5153
		20	Plummer Pole (Ted Butcher) Terminated	-	4953
		21	Wilson Terminated	-	4953

Table A-2 (cont.). IDAHO NEDS UPDATE - 3/22/74

COUNTY	AQCR	PLANT ID. NO.	ESTABLISHMENT NAME	SIZE CODE	SIC
BINGHAM					
0140	061	1	Ready to Pour	1	1442 3273
		2	Davids Elev.	1	5153
		3	Farmers Co-op Oil	3	5153
		4	P.F. Funk Grain	3	5153
		5	Idaho Grain & Produce	3	4221
		6	Modern Mills	3	5153
		7	Blackfoot Ready Mix Concrete	3	3273
		8	Goodwin Construction Co.	-	1442
		9	Gary Hone Excavation	-	1442
		10	Bateman Brothers Excav.	-	1442
BLAINE					
0180	063	1	Silver Creek Supply	2	4221
		2	Gordon Paving	3	2951
		3	Anderson Paving	3	2951
		4	Sun Valley Ready Mix, Inc.	-	2951
BOISE					
0200	063	1	Hoff Lumber Co.	1	2421
BONNER					
0240	063	1	Builder Supply	1	1423
		2	Les Peck	3	2951
		3	La. Pacific	1	2421 4953

Table A-2 (cont.) IDAHO NEDS UPDATE - 3/22/74

COUNTY	AQCR	PLANT ID. NO.	ESTABLISHMENT NAME	SIZE CODE	SIC
BONNER	063	4	L.D. McFalland	2	4953
		5	Lasswell Milling	3	5153
		6	Diamond International	1	4953 2421
		7	Louisiana Pacific	1	4953
		8	East River Lumber	1	4953
		9	Nelson Lumber Co	–	4953
		10	Geaudreau Lumber Co.	–	4953
		11	Binarch Lumber Co.	2	4953
		12	Arrow Tie Lumber	–	4953
		13	Merritt Brothers	–	4953 2421
		14	Cocolalla Lumber	1	4953
		15	Joslyn Mfg. T.P. Out of Business	–	4953
		16	Inland Asphalt Co	2	2951
		17	Dan Deshon (crusher)	–	1442
		18	Pack River Lumber	–	4953
		19	J.P. Schell	–	1442
BONNEVILLE					
0260	061	1	Utah & Idaho Sugar	1	2063
		2	Ready to Pour	1	1442
		3	Allied Paving	1	2951
		4	Kennaday Paving	1	2951
		5	Idaho Best	3	5153
		6	JMJ Elevator	3	5153
		7	JMJ Elevator	3	5153

Table A-2 (cont.). IDAHO NEDS UPDATE - 3/22/74

COUNTY	AQCR	PLANT ID. NO.	ESTABLISHMENT NAME	SIZE CODE	SIC
BONNEVILLE					
0260	061	8	Burns Bros. Concrete	3	3273
		9	Rodgers Bros.	3	5153
		10	Jack Thomas Grain	2	5153
		11	Pillsbury	1	4221
		12	Pillsbury	2	4221
		13	Burton Concrete Co.	-	3273
		14	Asphalt Sales Co.	3	2951
		15	Aiman Construction Co.	-	1442
		16	Continental I, Inc.	-	1442
		17	Hartwell Excav. Co.	-	1442
BOUNDARY					
0280	063	1	Louisiana Pacific	1	2421
		2	Pack River Co.	1	2421 4953
		3	Kootenai Grain	2	5153
		4	Kokanee Cedar Sales, Inc.	-	4953
		5	Messenbrink Mil:	-	4953
BUTTE					
0340	061	1	U.S. Atomic Energy Comm.	1	3443
		2	Temco Lumber Co.	-	4953

Table A-2 (cont.). IHAHO NEDS UPDATE - 3/22/74

COUNTY	AQCR	PLANT ID. NO.	ESTABLISHMENT NAME	SIZE CODE	SIC
CAMAS					
0380	063	1	Rocky Mountain Grain	3	4221
		2	Wendell Mill & Lumber	1	4953
CANYON					
0400	064	1	Idaho Concrete Pipe	1	1442
		2	Idaho Concrete Pipe	1	1423
		3	C. Wright Const. Co.	1	3531
		4	Kellogg Mills	2	5153
		5	Idaho Best	3	5153
		6	Union Seed	3	5153
		7	Rudy Patrick	3	5153
		8	Kellogg Mills	3	5153
		9	J.R. Simplot	1	2099
		10	Amalgamated Sugar	1	2063
		11	Idaho Concrete Pipe	3	2951 3273
		12	AA Redi-Mix	-	3273
		13	G & B Ready Mix	-	3273
		14	Strang Sand & Gravel	-	1442
		15	Borcherts Feed	3	4221
		16	Northrup King	3	5153
		17	Rambo Crushing Co.	-	1442
		18	ID Concrete Pipe	3	2951

Table A-2 (cont.). IDAHO NEDS UPDATE - 3/22/74

COUNTY	AQCR	PLANT ID. NO.	ESTABLISHMENT NAME	SIZE CODE	SIC
CARIBOU					
0420	061	1	Monsanto	1	2819
		2	Kerr-McGee	2	2899
		3	Agricultural Products	1	2874
		4	City Transfer	1	5131
		5	Intermountain Farmers Assn.	2	4221
		6	Ed Smith Hot Mix	3	2951
		7	Idaho Slag Corp	-	1442
CASSIA					
0440	063	1	Gordon Paving Co.	3	2951
		2	Morgan Lindsay	3	5153
		3	Morgan Lindsay	3	5153
		4	Feeders Grain Supply	3	4221
		5	Colorado Milling	3	4221
		6	Peterson Feed & Supply	1	5153
		7	Union Seed of Burley	3	5153
		8	Chevero Pipe Line, Burley	3	5171
		9	Hoffbuhr Ready Mix, Inc.	-	3273
		10	Magic Valley Sand & Gravel	-	1442
		11	Triple C Concrete	-	1442
		12	Bever & Plate	3	1442
		13	Gary D. Jones Construction	-	1442

Table A-2 (cont.). IDAHO NEDS UPDATE - 3/22/74

COUNTY	AQCR	PLANT ID. NO.	ESTABLISHMENT NAME	SIZE CODE	SIC
CLEARWATER					
0480	063	1	J.W. Brandt & Sons	-	4953
		2	Hutchins Brothers Lumber	-	4953
		3	Konkleville Lumber	1	4953
		4	Potlatch Corporation	1	4953
		5	Gates Cedar	2	4953
		6	Potlatch Corporation	1	2421
		7	NezPerce Rochoale	3	5153
		8	Johnston Brothers Lumber	-	4953
		9	Timberline Lumber Inc.	-	4953
		10	Alph Johnson & Sons terminate operations	-	4953
		11	Riverside Lumber Co.	-	2421
ELMORE					
0560	063	1	Mountain Home AFB	1	9711
		2	Mountain Home Redi-Mix	3	2951
		3	Idaho Concrete Pipe	3	3273
		4	Morrison-Knudson	3	2951
		5	Vic Thurman Construction	-	1442
		6	Wilson & Dodge Contractors	-	1442
		7	Elmore Paving (Out of Business)	-	2951
		8	Johnson Bros. (Crusher)	-	1442
		9	Burgett Construction	-	1442

Table A-2 (cont.). IDAHO NEDS UPDATE - 3/22/74

COUNTY	AQCR	PLANT ID. NO.	ESTABLISHMENT NAME	SIZE CODE	SIC
FRANKLIN					
0620	061	1	Franklin County Grain Growers	2	5153
		2	Cove Concrete Company	-	3273
		3	Dockstader Construction	-	1442
FREMONT					
0640	061	1	Idaho Stud Mill	1	2421 4953
		2	Reinke Grain Co	2	5153
		3	Pillsbury	2	4221
		4	Pillsbury	2	5153
		5	Pillsbury	3	5153
		6	Stoddard Lumber Mills	-	4953
		7	Ready to Pour Concrete Co	3	3273
GEM					
0660	063	1	Boise Cascade	1	2421
		2	City Transfer Ready-Mix	-	3273
GOODING					
0700	063	1	Beakon Bean	2	5153
		2	Wendell Elevator	3	5153
		3	Western Grain & Seed	3	5153

Table A-2 (cont.). IDAHO NEDS UPDATE - 3/22/74

COUNTY	AQCR	PLANT ID. NO.	ESTABLISHMENT NAME	SIZE CODE	SIC
IDAHO	063	1	Shearer Lumber Products	1	4953
		2	ID McFarland	1	4953
		3	Idapine Mills	1	2421
		4	Union Wareshouse & Supply	3	5131
		5	Cottonwood Elevator	3	5131
		6	Shearer Lumber	1	4953 2421
		7	Gem State Lumber	-	4953
		8	Cory Lumber	-	4953
		9	Stites Shake Co.	1	4953
		10	Salmon River Lumber	1	4953 2421
		11	Brink Cedar Products	-	4953
		12	Seupert Excavators	-	1442
JEFFERSON					
0780	061	1	Roberts Elevator	2	5131
		2	Rigby Coal Feed & Seed	3	5131
		3	Pillsbury	2	5153
		4	Brown's Land Leveling	-	1442
JEROME					
0820	063	1	Bean Growers Warehouse Assn.	3	5153
		2	Northrup King & Co.	3	5153
		3	Morgan Lindsay	3	5153

Table A-2 (cont.). IDAHO NEDS UPDATE - 3/22/74

COUNTY	AQCR	PLANT ID. NO.	ESTABLISHMENT NAME	SIZE CODE	SIC
KOOTENAI					
0860	062	1	Inland Asphalt	3	2951
		2	Central Pre-Mix	1	1442 3273
		3	Potlatch Corporation	1	2421
		4	Idaho Veneer Co	1	4953
		5	Northwest Timber Co	1	2421
		6	Idaho Forest Industries	1	2421
		7	Diamond International	1	2421
		8	Cedar Shakes, Inc.	-	4953
		9	Louisiana Pacific	1	4953
		10	Louisiana Pacific	1	4953
		11	Whiteman Mill	-	4953
		12	Pack River Lumber	-	2421
		13	Aspen Lumber	-	4953
		14	Rose Lake Lumber	-	4953
		15	Empire Concrete	3	3273 1442
		16	R.C. Worst & Co. Inc.	-	1442
		17	Hagen Lunceford	-	1442
		18	Grant Construction Co.	-	1442
LATAH					
0880	062	1	Western Valley Seed	3	5153
		2	Pure Line Seeds	3	5153
		3	Moscow Idaho Seed	2	5153

Table A-2 (cont.). IDAHO NEDS UPDATE - 3/22/74

COUNTY	AQCR	PLANT ID. NO.	ESTABLISHMENT NAME	SIZE CODE	SIC
LATAH					
0880	062	4	Crites Moscow Growers	3	5153
		5	Latah County Grain Growers	2	5153
		6	Central Pre-Mix	3	3273
		7	Gem State Lumber	1	2421
		8	Bennett Lumber Produce, Co.	1	2421
		9	Idaho Cedar Sales	1	4953
		10	Potlatch Corporation	1	2421
		11	Latah County Grain Growers	2	5153
		12	Latah County Grain Growers	3	5153
		13	Latah County Grain Growers	1	5153
		14	Latah County Grain Growers	3	5153
		15	Latah County Grain Growers	3	5153
		16	Latah County Grain Growers	3	5153
		17	Geo. F. Brocke & Sons	3	5153
		18	Kendrick Rochdale Co.	1	5153
		19	Potlatch Grain Co.	2	5153
		20	Central Pre-Mix	3	3273
		21	Owenbey Lumber Co.	3	4953
		22	Johnson Trucking	-	1442
		23	B & W Excav. Inc.	-	1442

Table A-2 (cont.). IDAHO NEDS UPDATE - 3/22/74

COUNTY	AQCR	PLANT ID. NO.	ESTABLISHMENT NAME		SIC
LEMHI					
0900	063	1	Intermountain Lumber Co.	1	2421 4953
		2	Robinson Lumber Co.	1	4953
LEWIS					
0920	063	1	Potlatch Corporation	1	2421
		2	Kamiah Mills	1	2421
		3	Scott Paper	1	4953
		4	Star Cedar Products	2	4953
		5	Union Warehouse & Mercantile	1	5153
		6	NezPerce Rochdale	3	5153
		7	Potlatch Spalding	1	4953
LINCOLN					
0980	063	1	Beakon Bean	3	5153
MADISON					
1000	061	1	Steiner Tharrop	2	5153
		2	Rexburg (Hoff) Lumber Co.	1	4953
		3	Ted Carner Ready Mix	-	3273
		4	Walters Ready Mix	-	3273

Table A-2 (cont.) IDAHO NEDS UPDATE - 3/22/74

COUNTY	AQCR	PLANT ID. NO.	ESTABLISHMENT NAME		SIC
MINIDOKA					
1020	063	1	Amalgamated Sugar Co.	-	2063
		2	Holmes Construction Co. (Terminated)	-	2951
		3	Morgan Lindsay	3	5153
		4	Minidoka Seed	3	5153
		5	Floyd E. Idle Merchandize	2	4221
		6	Woolford Mill & Elev	3	5153
		7	Kloepfer Ready Mix	-	3273
NEZ PERCE					
1140	062	1	Potlatch Corporation	1	2621
		2	Valley Redi-Mix	3	3273
		3	Potlatch Corporation	1	2421
		4	Benedict Seed	3	5153
		5	G.F. Brocke & Sons	3	4221
		6	Conco Ready Mix Concrete	-	3273
		7	Lewiston Pre-Mix Concrete	-	3273
		8	Poe Asphalt Paving	2	2951
		9	A & R Construction	-	3273
ONEIDA					
1160	061	1	Pillsbury	2	4221
		2	Oneida County Grain	3	5153
		3	Hess Brothers Contractors	-	1442

Table A-2 (cont.) IDAHO NEDS UPDATE - 3/22/74

COUNTY	AQCR	PLANT ID. NO.	ESTABLISHMENT NAME	SIZE CODE	SIC
PAYETTE					
1220	063	1	Elliott Concrete	-	3273
		2	Donoho Sand & Gravel	-	1442
POWER					
1260	061	1	Patton & Linton	3	3273
		2	Colorado Milling & Elev	3	5153
		3	Power County Grain Growers	2	5153
		4	Pillsbury	1	4221
		5	FMC Corp	1	2819
		6	J.R. Simplot	1	2874
SHOSHONE					
1420	062	1	Bunker Hill	1	3332
		2	North Idaho Phosphate	1	2874
		3	Burns Yaak	1	4953
		4	Zanetti Bros	2	1442 3273
		5	Kellogg Transfer	-	4953
		6	Kellogg Transfer	-	4953
		7	Kellogg Transfer	-	4953
		8	Pack River Lumber	-	4953
		9	Bear Creek Lumber	-	4953
		10	Bear Creek Lumber	-	4953
		11	Inland Asphalt Co.	3	2951
		12	B & H Asphalt Paving	-	2951

Table A-2 (cont.). IDAHO NEDS UPDATE - 3/22/74

COUNTY	AQCR	PLANT ID. NO.	ESTABLISHMENT NAME	SIZE CODE	SIC
SHOSHONE					
1420	062	13	Idaho Cedar Sales	1	4953
		14	McKin-Kiser Company	-	1442
TETON					
1440	061	1	Green Milling	3	4221
TWIN FALLS					
1480	063	1	Amalgamated Sugar	1	2063
		2	Monroe Inc	1	1423
		3	Colonial Concrete	1	1423
		4	Beymer Paving	1	2951
		5	J.A. Clawson (Sold out to Gordon Paving)	2	2951
		6	O.J. Childs	3	5153
		7	Bean Growers Whse Assn	3	5153
		8	Bean Growers Whse Assn	3	5153
		9	Berger & Plate	3	4221
		10	Bean Growers Whse Assn.	3	5153
		11	Morgan Lindsay	3	5153
		12	Uhlig Feed Lots	3	5153
		13	Roger Bros	3	5153
		14	Rangen	3	5153
		15	Idaho Alfalfa Products, Inc.	2	5153
		16	Gordon Paving	2	2951
		17	Peter Kiewit Sons' Co. (Moved to Nevada)	1	2951

Table A-2 (cont.). IDAHO NEDS UPDATE - 3/22/74

COUNTY	AQCR	PLANT ID. NO.	ESTABLISHMENT NAME	SIZE CODE	SIC
TWIN FALLS					
1480	063	18	Northwest Crane & Transport	—	3273
		19	Idaho Best	3	5153
		20	Gallatin Valley Seed	3	5153
		21	Cheveron Pipe Line	3	5171
		22	Keystone Seed	3	5153
		23	Intermountain Bean	3	4221
VALLEY					
1500	063	1	Boise Cascade	1	2021
		2	Boise Cascade	1	2421 4953
WASHINGTON					
1520	063	1	Petty Ready Mix	3	3273
		2	Weiser Feed & Storage	3	5153
		3	Meridian Pine (Bought by Boise Cascade)	—	4953
		4	C & W Sand & Gravel	—	1442

Table A-3. ALASKA NEDS UPDATE - 1/22/74

NEDS ID.			SIC	Company	Em. Size Code	State File No.	Add. Info. Req.	Comments
County	Plant No.	NO. OF SOURCES						
0020	1	4	4953	Adak Naval Station				
	2	3	4953	Shemya AB				
	3	1	5171	Standard Oil		60		Dutch Harbor
	4	1	5171	Standard Oil		61		Cold Bay
	5	1	9711	Adak NavCom Station				
0060	1	1	4911	ANC Municipal Light & P		105		
	2	2	9711	Ft. Richardson				
	3	1	4911	Chugach Electric		94		International
	4	1	5171	Standard Oil		77		Airport
	5	1	5171	Texaco		54		Airport
	6	1	5171	Shell Oil		113		Airport
	7	2	5171	Shell Oil		22		ANC Dock
	8	1	5171	Standard Oil		99		ANC Dock
	9	1	5171	Tesoro-Alaskan		15		
	10	2	5171	Texaco		53		City Dock
	11	2	5171	Union Oil		116		ANC Dock, 2911
	12	1	2951	ANC Asphalt		80		Chulitna
	13	1	2951	ANC Asphalt		81		ANC
	14	1	2951	Rogers & Babler		90		Asphalt Plant ANC
	15	1	1442	Rogers & Babler		127		Eklutna Gravel Pit
	16	1	4463	Pacific Western Line				Cement
	17	2	7216	AK Cleaners		132		

Table A-3 (cont.). ALASKA NEDS UPDATE - 1/22/74

NEDS ID.			SIC	Company	Em. Size Code	State File No.	Add. Info. Req.	Comments
County	Plant No.	NO. OF SOURCES						
0060	18	1	7216	Snow White Ldy & Cln		133		
	19	1	4953	HEW PHS ANC				
	20	1	2951	M-B Contracting Co.		5		
	21	2	9711	Elmendorf AB				
	22	1	9711	Petroleum Directorate				
	23	1	4911	ANC Mun. Pwr. & L.				
0080	2	1	9711	Arctic Research Lab				
	3	1	5171	J & W Co.		122		Barrow
0100	1	1	5171	Standard Oil		63		Bethel
	2	2	9411	BIA Bethel				
	3	1	4953	HEW PHS Bethel				
	4	1	4911	Bethel Electric Utility				
	5	1	2951	Burgess Construction		10		Bethel
0110	1	1	2951	K-Inc.		19		King-Salmon
	2	1	5171	Standard Oil		69		Naknek
	3	3	4953	King Salmon AB				
0120	1	1	5171	Standard Oil		65		Dillingham
	2	2	4911	Nushagak Electric		126		

Table A-3 (cont.). ALASKA NEDS UPDATE - 1/22/74

NEDS ID.			SIC	Company	Em. Size Code	State File No.	Add. Info. Req.	Comments
County	Plant No.	NO. OF SOURCES						
0140	1	1	4171	Standard Oil		64		Cordova
	2	1	4911	Cordova Pub Utility				
	3	1	4953	Cordova City Dump				
0180	1	1	9711	Eielson Air Base				
	2	5	4961	Municipal Utility Sys.		41		
	3	1	9711	Petro Directorate				at Ft. Greely
	4	6	9711	Ft. Wainwright				
	5	3	4911	Golden Valley Electric		89		Ill. St.
	6	1	9661	NASA				Mile 13
	7	1	8221	U of AK		78		
	8	1	9512	BLM		76		Ice Fog
	9	2	4911	Golden Valley Electric		89		U of AK
	10	2	2951	Paving Product Inc.		92		
	11	1	3295	FAI Sand & Gravel		93		
	12	1	4952	City of FAI		120		Sewage
	13	1	4953	Northland Wood		84		
	14	1	8062	FAI Community Hospotal		135		
	15	1	8211	N Star-Boro School Dist.		139		Lathrop
	16	1	9621	DOT AK Railroad				
	17	1	9711	Petro Directorate				Birch Lake
	18	2	9711	Murphy DM AB				
	19	1	9711	Petro Directorate				at Ft. Wainwright

Table A-3 (cont.). ALASKA NEDS UPDATE - 1/22/74

NEDS ID.			SIC	Company	Em. Size Code	State File No.	Add. Info. Req.	Comments
County	Plant No.	NO. OF SOURCES						
0180	20	1	8211	N Star Boro School				YMCA
	21	1	8211	N Star Boro School				Nordale
	22	1	8211	"				Hunter
	23	1	8211	"				Denali
	24	1	8211	"				Barnett
	25	1	8211	"				Joy
	26	1	8211	"		Uni-Park		Uni-Park
	27	1	8211	"				N Pole
	28	1	5171	Tesoro-Alaskan		140		FAI A/P
	29	1	5171	Texaco		55		FAI
	30	2	5171	Standard Oil		76		FAI
	31	1	2951	ANC Asphalt		82		
0195	1	2	4953	Schnable Lumber		101		
	2	1	4953	AK Forest Product		102		
	3	1	9711	Petro Directorate				Haines
	4	1	4911	Haines Light & Power				
0220	1	1	4911	AK Light & Power		23,87		Gold Ck.
	2	1	2951	Burgess Construction		9		Jun.
	3	1	2951	A & G Construction		1		Jun.
	4	1	5171	Standard Oil		62		Jun.
	5	1	2951	Red Samm Mining		97		Jun.

Table A-3 (cont.). ALASKA NEDS UPDATE - 1/22/74

NEDS ID.			SIC	Company	Em. Size Code	State File No.	Add. Info. Req.	Comments
County	Plant No.	NO. OF SOURCES						
0220	6	1	5171	Union Oil		123		Jun.
	7	1	6513	Mendenhall Apt.				Jun.
	8	1	4911	Alaska P & L - Lemon Crk.		87		
0240	1	1	4911	Chugach Electric		96		Bernice Lake
	2	2	1311	Marathon Oil		118		Beaver Ck.
	3	1	4612	Kenai Pipeline		28		Soldotna, Nikiski 29
	4	1	1311	Marathon Oil		20		Dolly Varden
	5	1	1311	Mobil Oil		42		Granite Pt. Facility
	6	5	1321	Phillips Petro		26		Kenai
	7	2	2911	Cook Inlet Pipe		51		
	8	1	1311	Mobil Oil - Platform 4				
	9	4	2911	Standard Oil				Kenai Treating
	10	7	2911	Tesoro-AK Petro		7		
	11	2	4911	Chugach Electric		58		Beluga River
	12	1	5171	Union Oil		117		Kenai
	13	1	1311	ARCO-Platform A		35		
	14	5	2911	Marathon Oil				
	15	2	1311	ARCO		33,	35	01_{Spark} 02_{A}
	16	1	1311	ARCO		17		King Salmon
	17	1	1311	Phillips Petro		25		A
	18	1	1311	Union Oil		31		Monopod
	19	1	1311	Union Oil		32		Grayling
	20	1	2951	Peter Kiewit		6		

Table A-3 (cont.). ALASKA NEDS UPDATE - 1/22/74

NEDS ID.			SIC	Company	Em. Size Code	State File No.	Add. Info. Req.	Comments
County	Plant No.	NO. OF SOURCES						
0240	21	4	2873	Union Collier		24		Kenai
	22	1	5171	Standard Oil		59		Homer
	23	1	2951	Arctic Asphalt		107		Soldotna
	24	1	4612	AK Pipeline		108		Kalifonsky
	25	1	4612	AK Pipeline		109		Naptowne
	26	1	2911	AMOCO		110		
	27	1	4612	Cook Inlet Pipeline		113		
	28	4	2911	ARCO		34		Granite Point
	29	1	4612	Cook Inlet Pipe		134		West Forland
	30	1	4953	South Central Timber		121		
	31	1	2951	Green Construction		4		Soldotna
	32	1	1311	Shell Oil				Platform A
	33	1	1311	Shell Oil				Platform C
	34	1	2911	Shell Oil				East Farland Fac.
	35	1	1311	AMOCO				Platform Anna
	36	1	1311	AMOCO				Platform Bruce
	37	1	1311	AMOCO				Platform Baker
	38	1	1311	AMOCO				Platform Dillon
0280	1	1	4911	KTN Public Utility		136		
	2	5	2611	KTN Pulp		56		
	3	2	5171	Standard Oil		72		KTN
	4	1	2421	KTN Spruce Mill		88		

GCA/TECHNOLOGY DIVISION

Table A-3 (cont.). ALASKA NEDS UPDATE - 1/22/74

NEDS ID.			SIC	Company	Em. Size Code	State File No.	Add. Info. Req.	Comments
County	Plant No.	NO. OF SOURCES						
0280	5	1	4953	S.E. Cedar Product		98		
	6	1	4953	KSM - Annette Hemlock		103		
	7	1	4953	Herring Bay Lumber		106		
	8	1	5171	Union Oil		125		
	9	2	2951	Stewart-Erickson		18		
(Continued on Next Page)								

Table A-3 (cont.). ALASKA NEDS UPDATE - 1/22/74

NEDS ID.			SIC	Company	Em. Size Code	State File No.	Add. Info. Req.	Comments
County	Plant No.	NO. OF SOURCES						
0300	1	1	5171	Standard Oil		70		KZB
	2	1	4911	KZB Elect. Asso.		130		
	3	1	4953	KZB Municiple Util.		138		
	4	1	9711	KZB AFB				
	5	1	8062	NEW PHS				
0340	1	2	4911	KDK Elect. Asso.		57		Kodiak
	2	1	5171	Standard Oil		71		KDK
	3	1	5171	Union Oil				KDK
	4	1	9711	DOT USCG KDK				
	5	1	4953	KDK City Dump				
0400	1	1	5171	Standard Oil		68		Nome
	2	1	5171	Standard Oil		100		St. Michael
	3	1	2951	Burgess Const.				Nome
	4	1	9411	BIA Nome				
	5	1	4911	Nome Light & Power				
0460	1	1	5171	Standard Oil		67		SWD
	2	1	4953	Kenai Lumber		119		
0500	1	4	2611	AK Lumber & Pulp		47		
	2	1	2951	Asso. Engineering		2		SIT

Table A-3 (cont.). ALASKA NEDS UPDATE - 1/22/74

NEDS ID.			SIC	Company	Em. Size Code	State File No.	Add. Info. Req.	Comments
County	Plant No.	NO. OF SOURCES						
0500	3	2	8211	BIA Mt. Edgecumbe				Mt. Edgecumbe
0507	1	1	5171	Standard Oil		66		
	2	1	1442	Monti Bay Sand & G.				YKT
0514	1	1	9711	DOD Ft. Greely				
	2	1	9711	Petro Directorate				TOK
	3	1	9711	" "				Delta Junction
	4	1	2951	Green Construction		3		Birch Lake
0540	1	1	5171	ARCO		37		Prudhoe Bay
	2	1	4953	ARCO		38		Sag. River
	3	1	4953	ARCO		39		
	4	3	2911	ARCO		36		Sag. River
	5	1	1311	Brinkerhoff		44		Rig #36
	6	1	1311	Brinkerhoff		45		Rig #53
	7	1	5171	Standard Oil		50		Ft. Yukon
	8	1	4911	BP AK		91		North Slope Camp
	9	1	4911	BP AK		85		
	10	1	9711	Ft. Yukon				
0560	1	1	5171	Standard Oil		73		VDZ
	2	1	5171	Tesoro-AK Petro		16		VDZ

Table A-3 (cont.). ALASKA NEDS UPDATE - 1/22/74

NEDS ID.			SIC	Company	Em. Size Code	State File No.	Add. Info. Req.	Comments
County	Plant No.	NO. OF SOURCES						
0560	3	1	4911	Copper Valley Elect.				
	4	1	9711	Petro Directorate				Whittier
0600	1	1	4953	PSG City Dump				
	2	2	2499	AK Wood Product		27		
	3	1	4953	Mitkof Lumber		83		
	4	1	4953	City of WRG		134		
	5	2	2421	WRG Lumber		24		
	6	1	4911	WRG Municiple		137		
	7	1	4911	PSG Municiple L & P				
0620	1	2	4911	Golden Valley Elect		86		
	2	1	5171	Union Oil		129		Nenana
	3	1	8062	HEW PHS				Tanana
	4	1	9711	Galena AB				
	5	1	9711	Clear MEWS				
	6	1	9711	Campion AB				

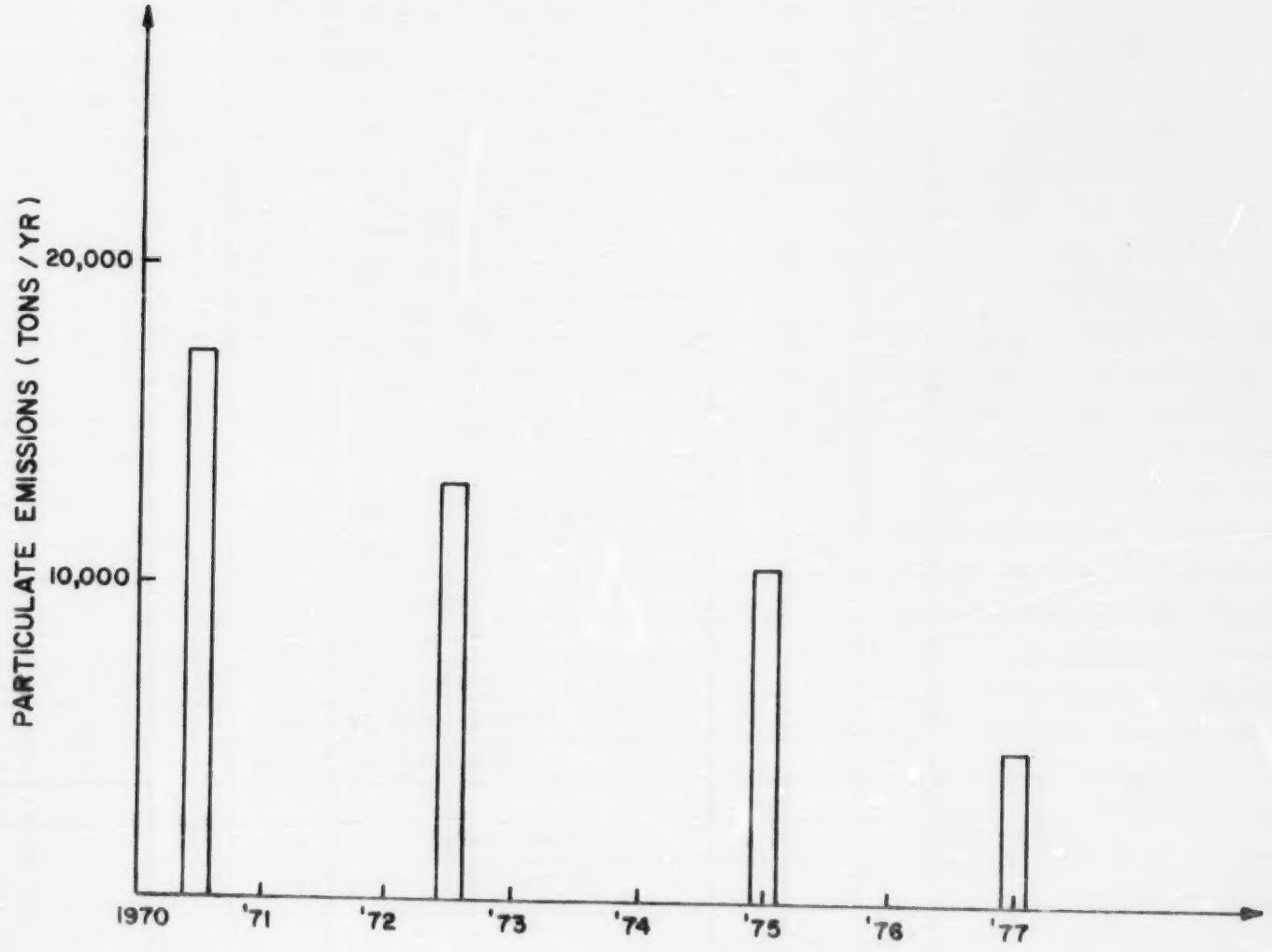

Figure A-1. Point and Area Source Particulate Emissions for Clark Co., WN.

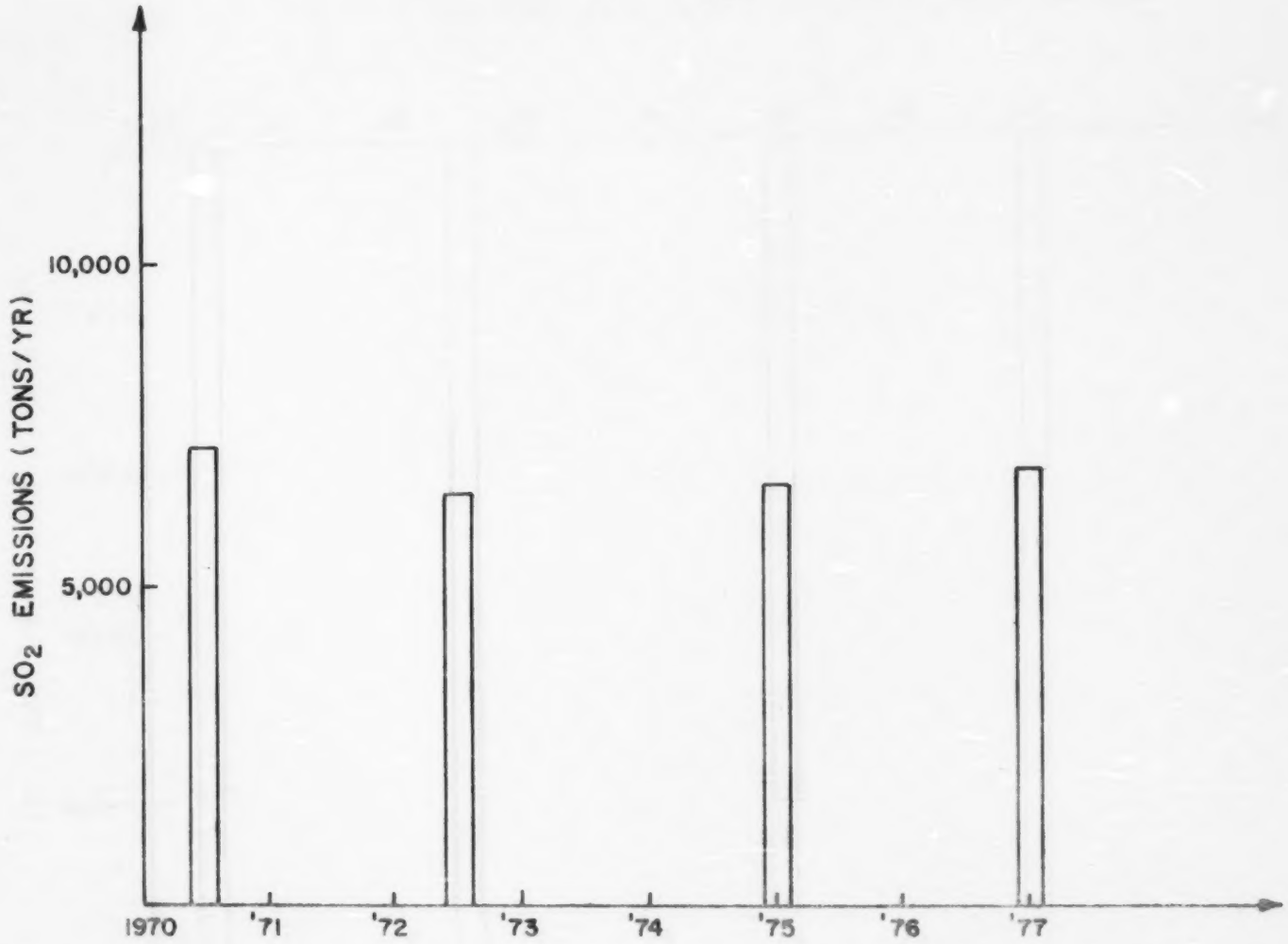

Figure A-2. Point and Area Source SO_2 Emissions for Clark Co., WN.

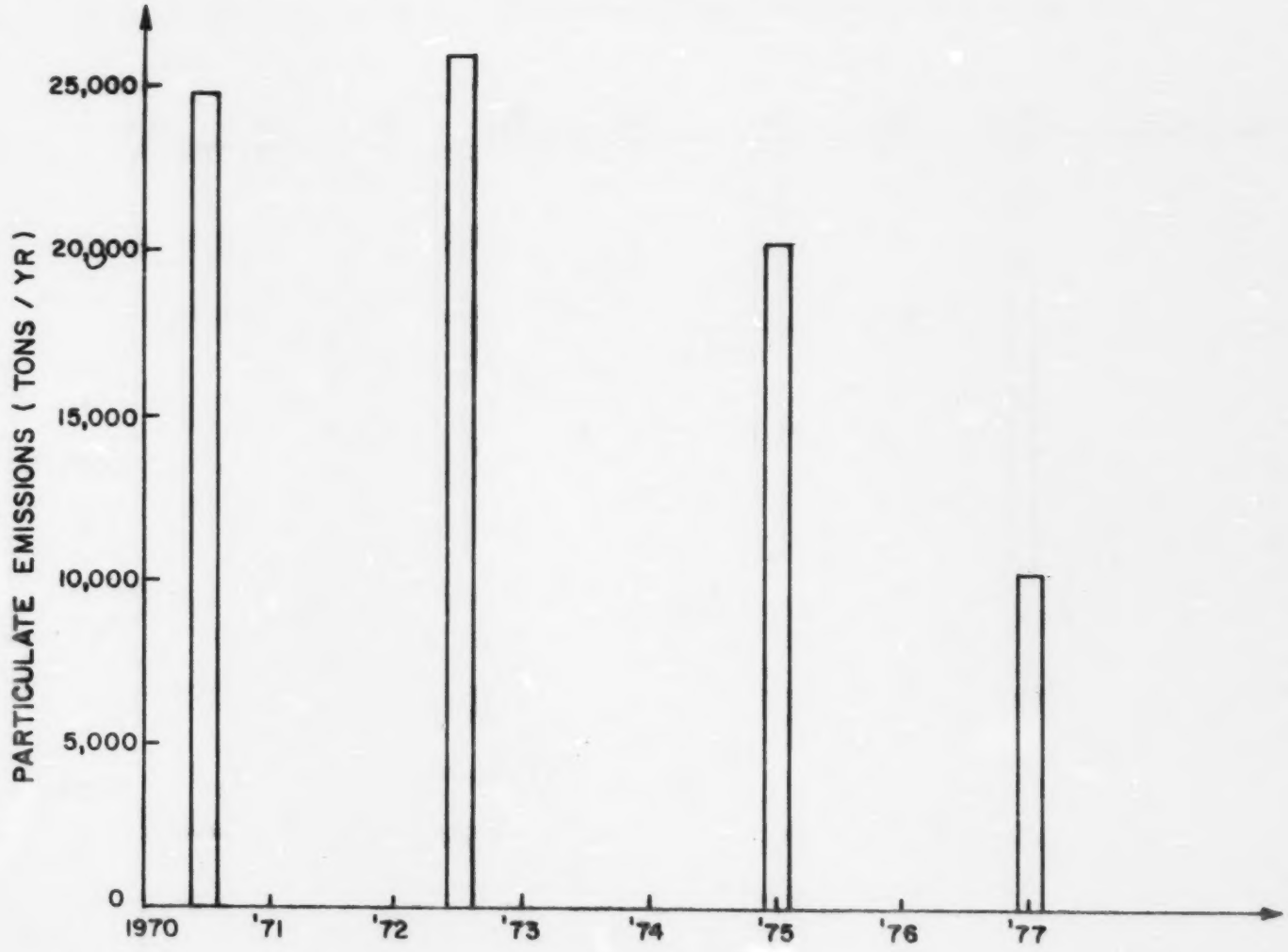

Figure A-3. Point and Area Source Particulate Emissions for Cowlitz Co., WN.

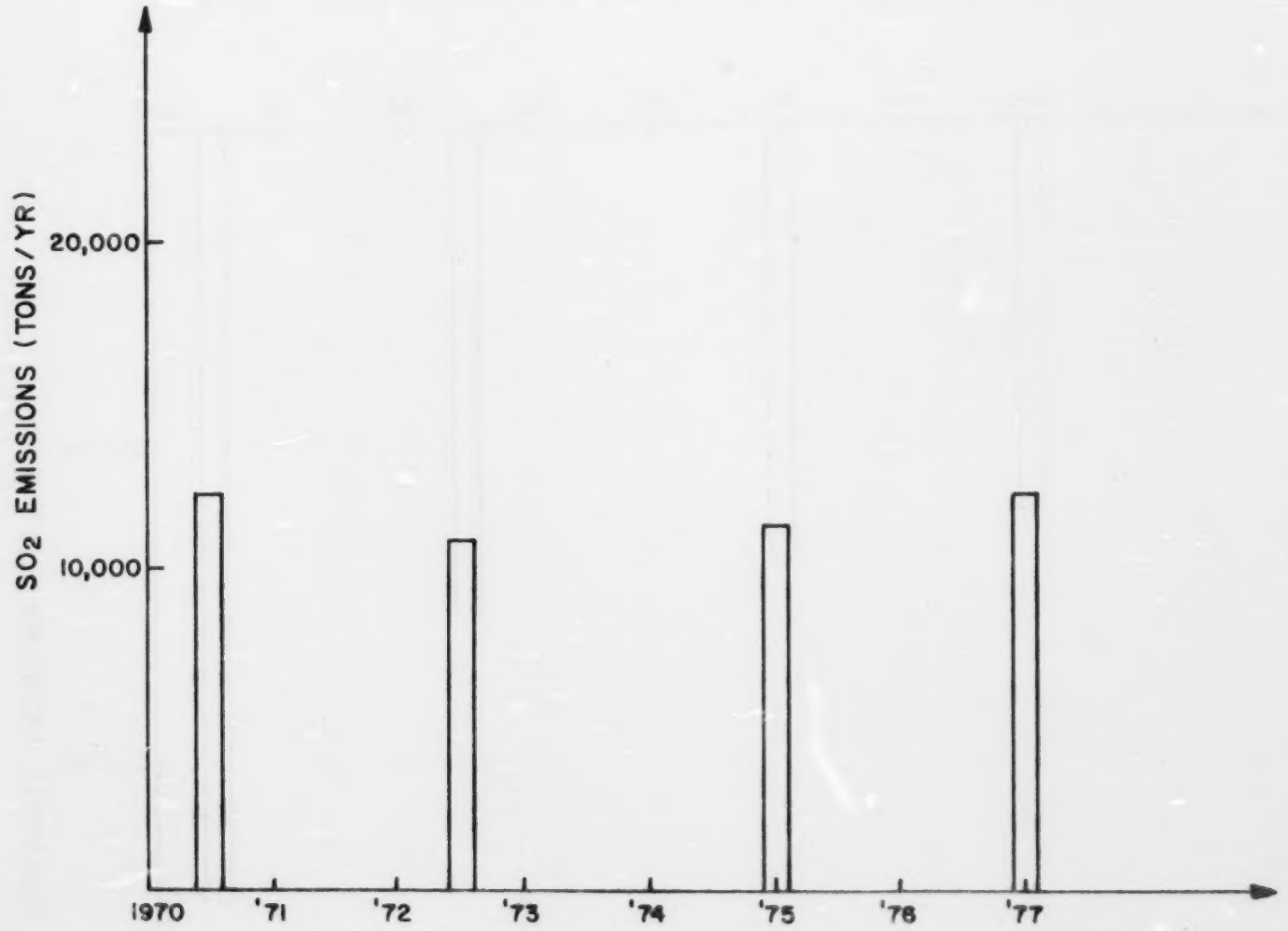

Figure A-4. Point and Area Source SO_2 Emissions for Cowlitz Co., WN.

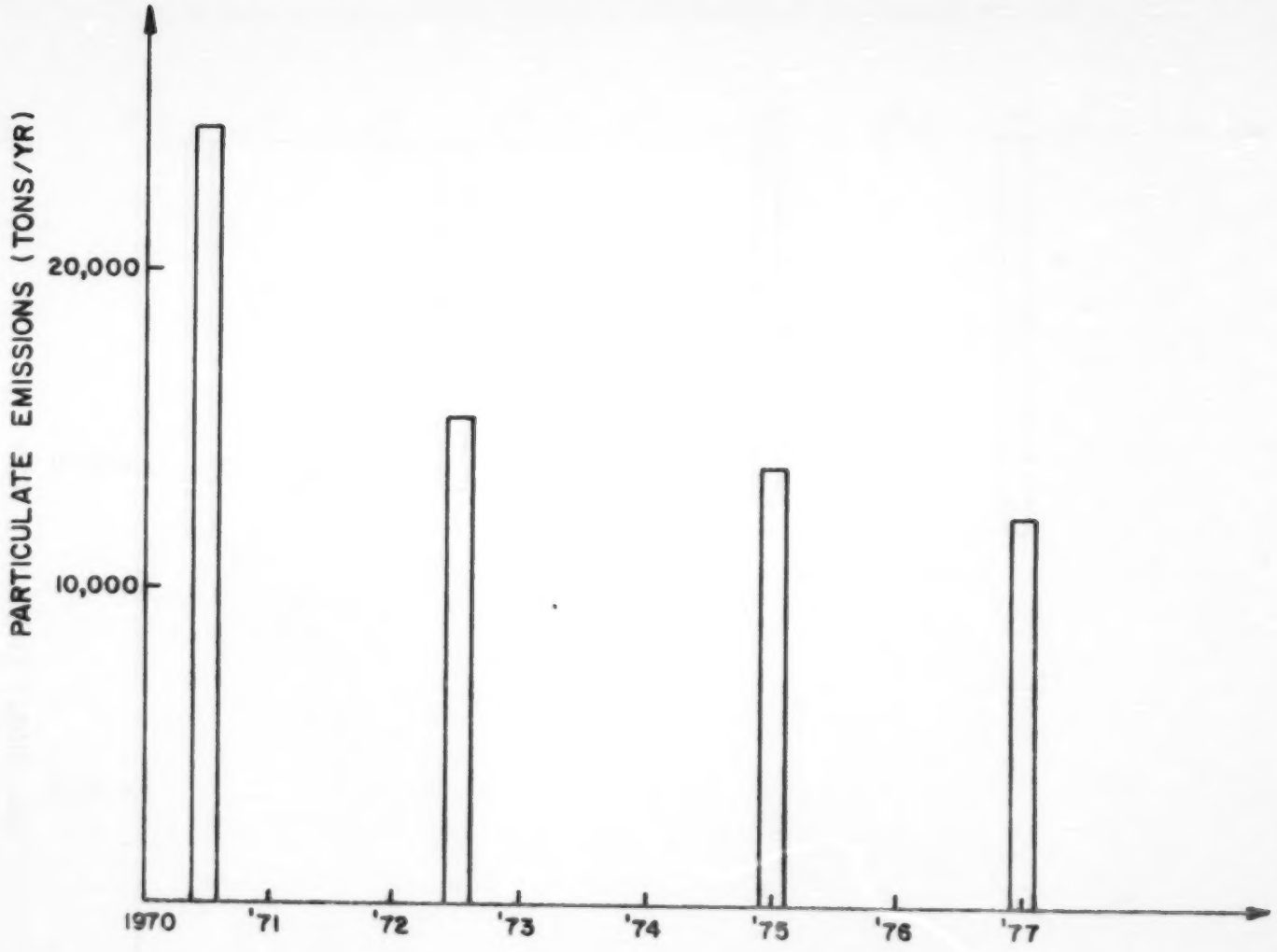

Figure A-5. Point and Area Source Particulate Emissions for King Co., WN.

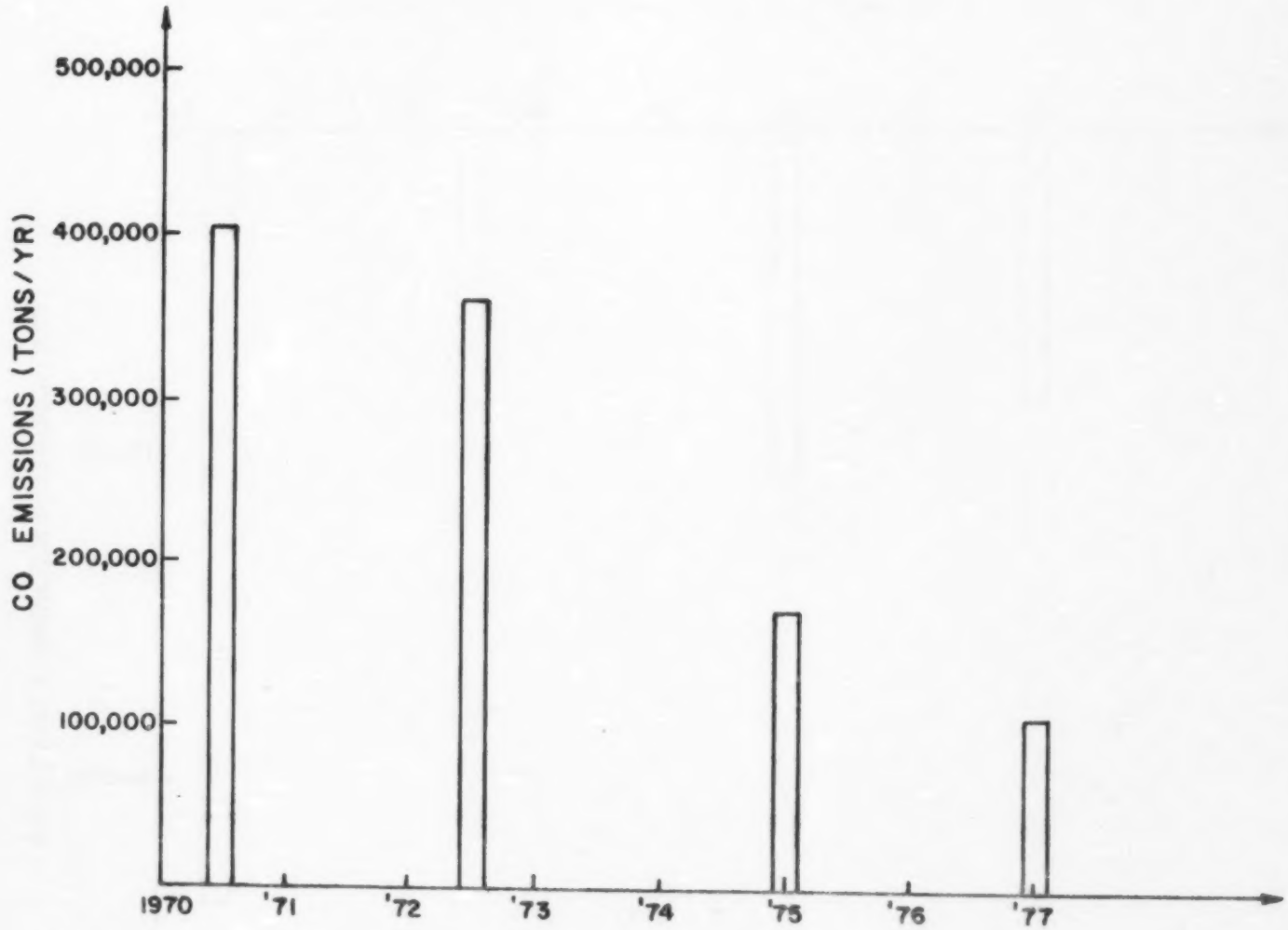

Figure A-6. Point and Area Source CO Emissions for King Co., WN.

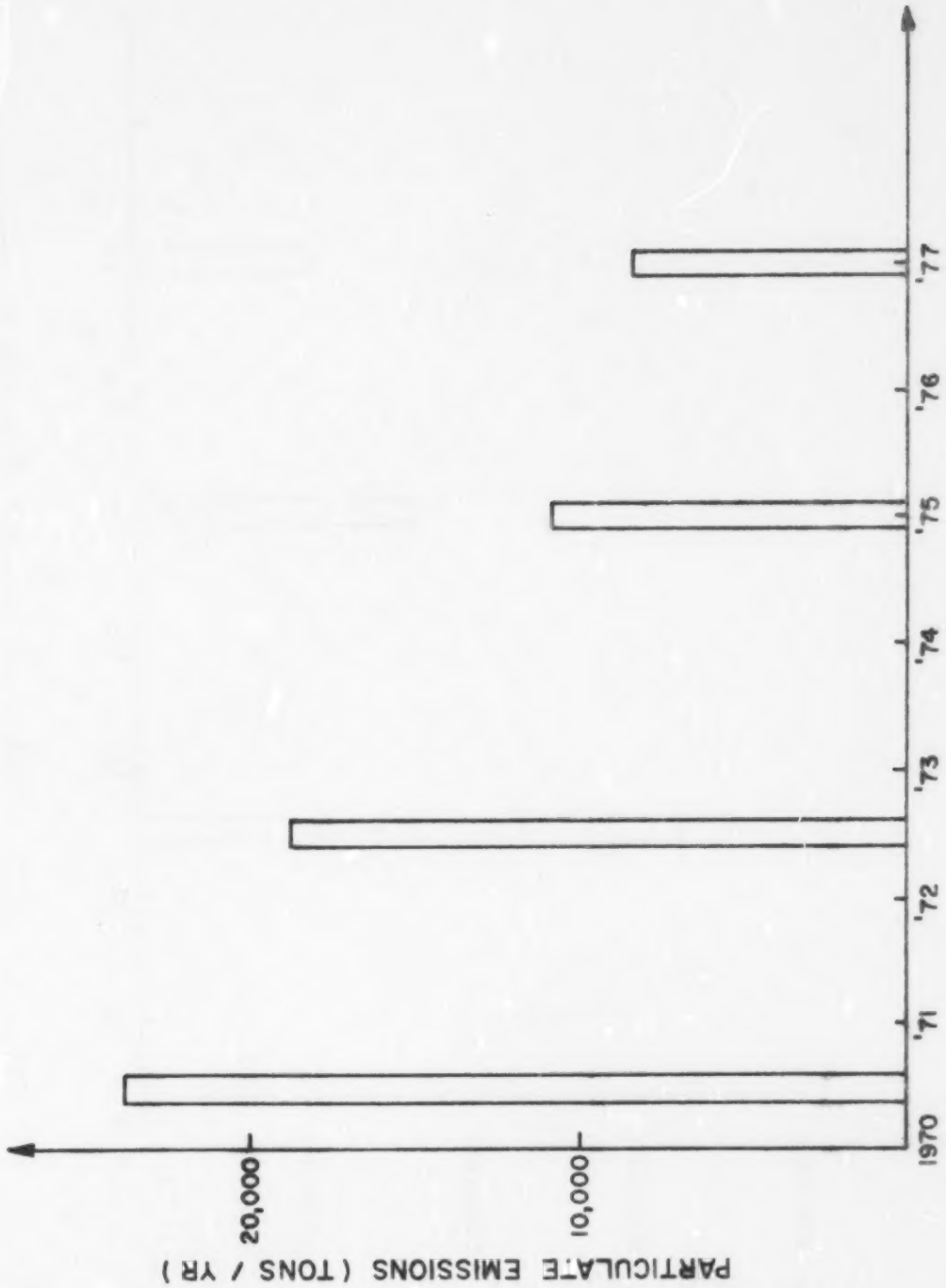

Figure A-7. Point and Area Source Particulate Emissions for Pierce Co., WN.

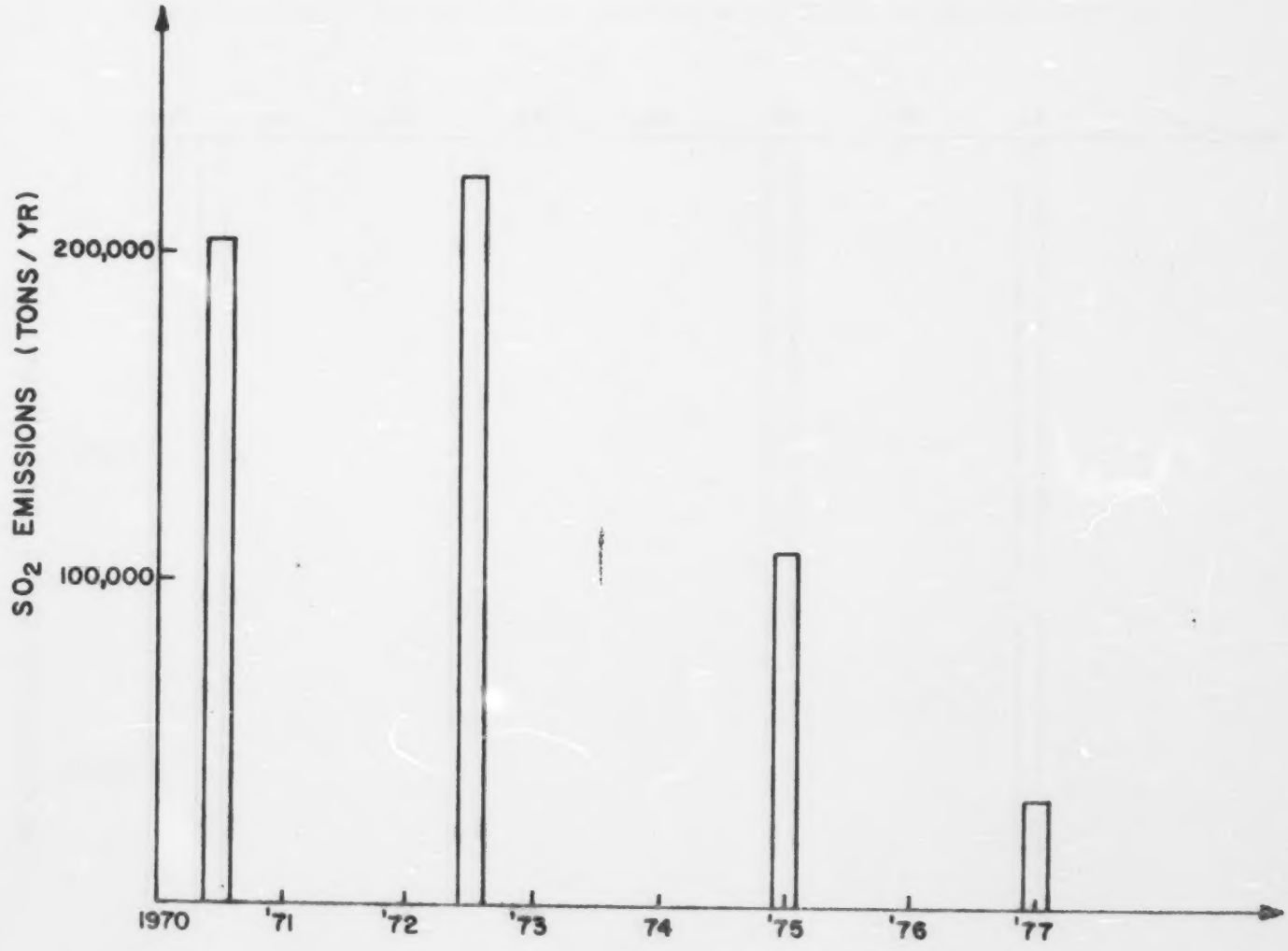

Figure A-8. Point and Area Source SO_2 Emissions for Pierce Co., WN.

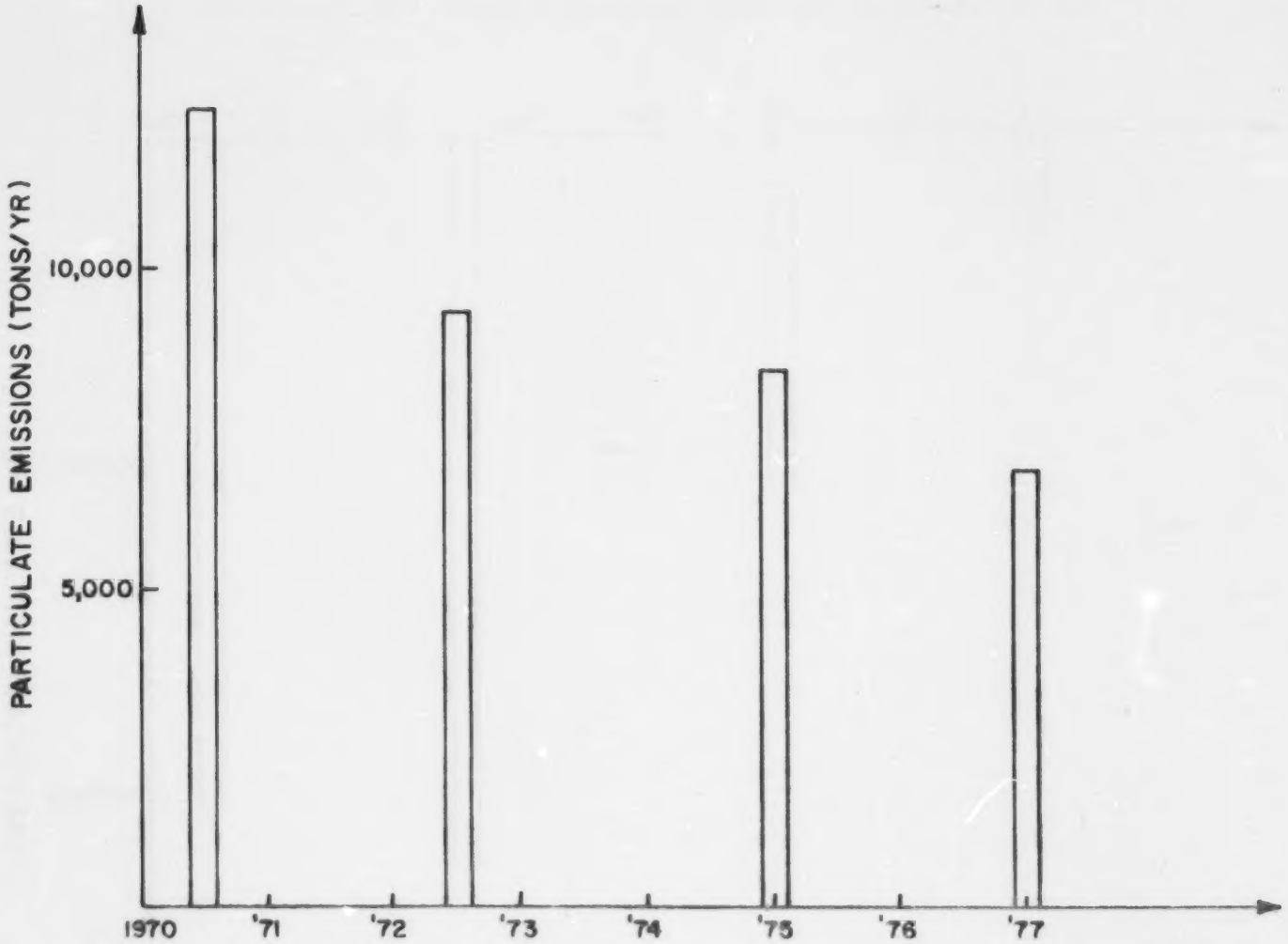

Figure A-9. Point and Area Source Particulate Emissions for Snohomish Co., WN.

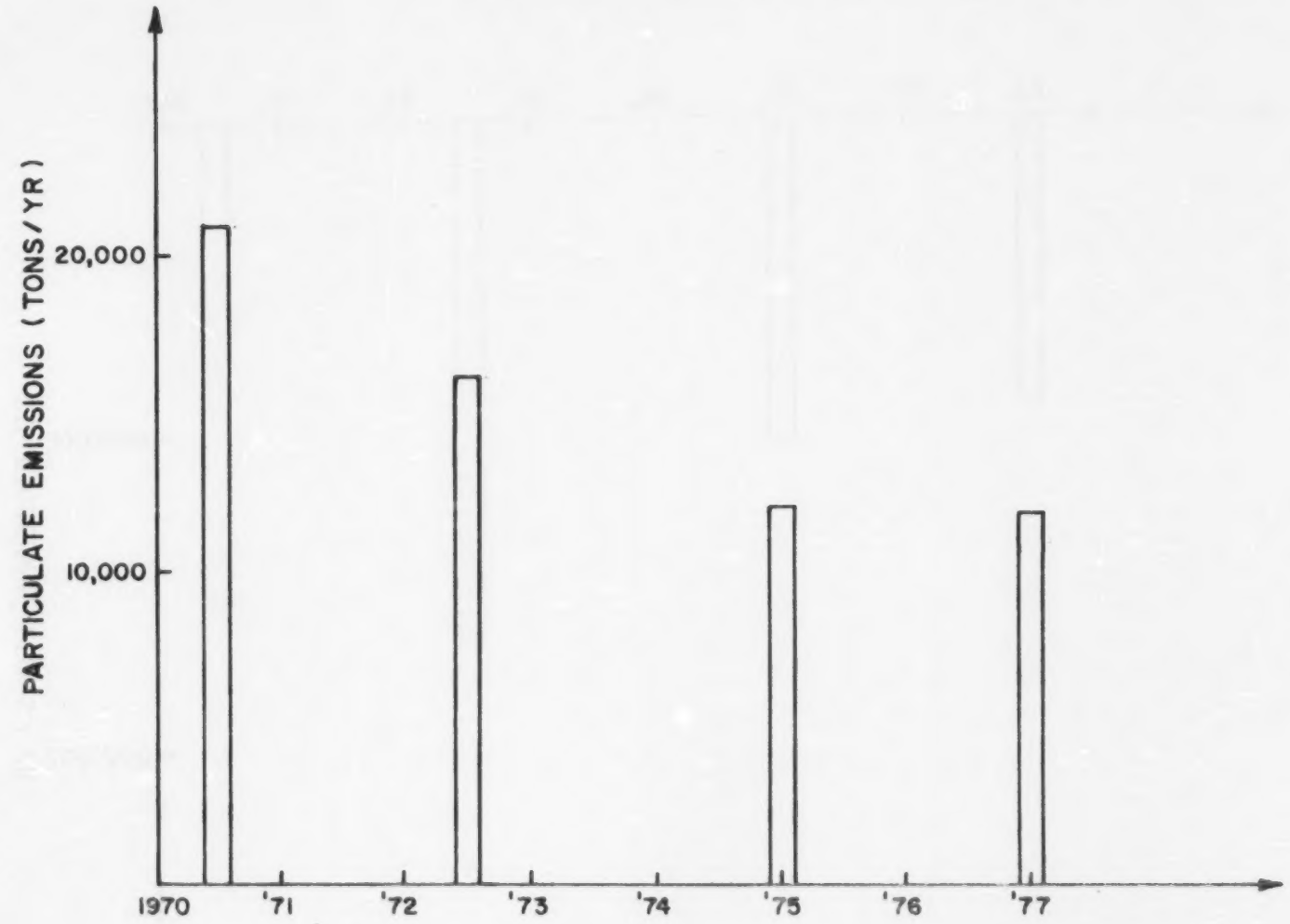

Figure A-10. Point and Area Source Particulate Emissions for Spokane Co., WN.

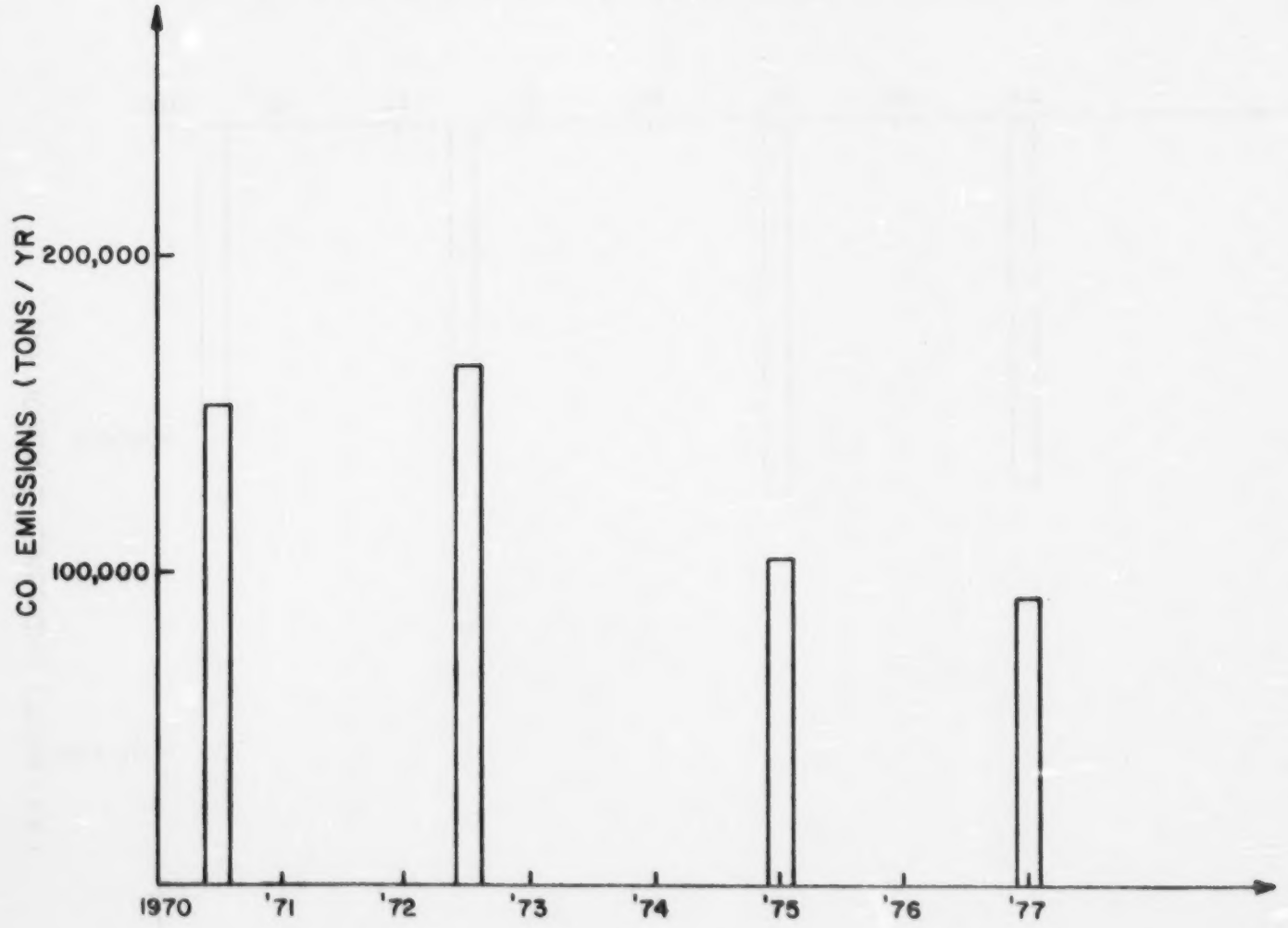

Figure A-11. Point and Area Source CO Emissions for Spokane Co., WN.